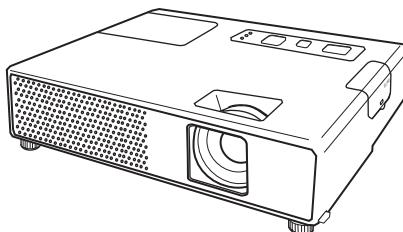


Projector
8784

User's Manual – Network Functions



This manual is only intended to explain Network Functions.

WARNING ▶ Before using this product, read the “User’s Manual – Safety Guide” and related manuals to ensure proper use of this product. After reading them, store them in a safe place for future reference.

NOTE • The information in this manual is subject to change without notice.

- The manufacturer assumes no responsibility for any errors that may appear in this manual.
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Trademark acknowledgment

- Windows is a registered trademark of Microsoft Corporation.
All other trademarks are the properties of their respective owners.

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Caution**[Restriction in terms of inserts or pulls memory card and wireless network card]**

Do not pull out the memory card and the wireless network card while the power is on. The memory card can be pulled out only while the card access LED is off.

Choose one of the following item either “REMOVE ALL”, “REMOVE SD CARD” or “REMOVE USB” that matches a media to be taken out, from projector, when you remove the SD card or USB memory. The item can be found on the menu “MIU → SERVICE”. ( *MIU Menu of the User's Manual - Operating Guide*)

 **CAUTION**

■The accompanying IEEE802.11b/g wireless network card uses the 2.4GHz radio frequency band. You do not need a radio license to use this card, but you should be aware of the following:

● **DO NOT USE NEAR THE FOLLOWING!**

- Microwave ovens
- Industrial, scientific or medical devices
- Designated low power radio stations
- Premises radio stations

Using the wireless network card near the above may result in radio interference, which in turn may result in a decrease in communication speed and even a complete loss of communication.

● Depending on the location where you attempt to use the wireless network card, there may be interference with the radio waves, which may result in a decrease in communication speed and even a complete loss of communication. In particular, please be aware that using the wireless network card in locations where there is reinforced steel, other metals and concrete may interfere with radio communication.

● **Available Channels**

The wireless network card uses the 2.4GHz radio frequency band, but depending on the country or region you are in, you might be limited to the channels you can use. Please refer to the following table for confirming where and with what channels you may use the accompanying IEEE802.11b/g wireless network card. Please consult with your dealer for countries not included in the table.

Country or Region	Available Channel
Japan	1 to 11
USA	1 to 11
Taiwan	1 to 11
Canada	1 to 11
UK, Spain, Germany, Italy, Austria, Switzerland, Belgium, Sweden, Netherlands, Portugal, Denmark, Finland, Greece, Norway, France, Ireland, Luxembourg, Iceland	1 to 11

● You may not bring the wireless network card into countries not listed above as there is a possibility that use of the wireless network card in those countries could lead to an infringement of established radio laws.

Caution

CE 0560 !

The manufacturer (Gemtek) hereby declare that this equipment (SD wireless network card), model SD-Link11g is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

1. Main functions

1.1 Live Mode (Project images from PC)

The MIU (Multi Information processing Unit) enables “Wireless presentation” by choosing Live Mode.

The Live Mode give you an ability to display a same image that is shown on the PC through the network by using an application program “MIU Live Viewer”. (Fig.1.1.a)

The “MIU Live Viewer” captures PC screen image and sends to the projector through wired LAN or wireless LAN connection. (Refer to section 3 in detail.)

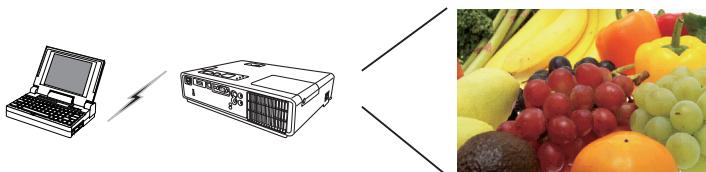


Fig. 1.1.a “MIU Live Viewer” outlines (through wireless LAN connection)

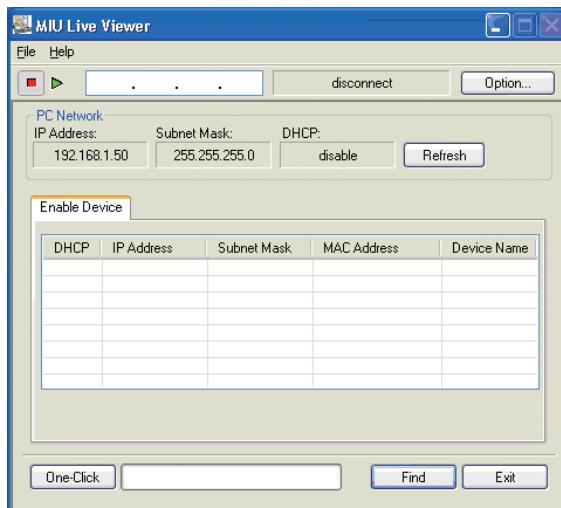


Fig. 1.1.b “MIU Live Viewer”

One projector can be connected with up to 4 PCs using “MIU Live Viewer”.
(Book 52)

1.2 PC-LESS Presentation

(Display the images stored in SD Memory Card/USB memory.)

The MIU enables “PC-LESS Presentation” by choosing PC-LESS function. (Fig. 1.2.a) The PC-LESS function enables to display images that are stored in the SD Memory Card or USB memory. The “PC-LESS Presentation” has 4 types of display modes.

- 1) Thumbnail Mode: Display thumbnails stored images in SD Memory Card or USB memory. (From now on, it is called “memory card” as SD Memory Card and USB memory combined.)
- 2) Full Screen Mode: Display selected image or movie on the full screen mode.
- 3) Slide Show Mode: Display images as slideshow mode with certain interval.
- 4) Directory Tree View: Display files and folders that are stored in memory card as directory tree view.

[Supported memory devices]

- SD Memory Card
- USB memory (USB memory type, USB Hard Disk and USB card reader type)

NOTE • USB memory reader (adapter) is not supported (if the adapter acknowledges as multiple devices connected).

- The supported formats are FAT 12, FAT 16(FAT) and FAT 32. NTFS is not supported.
- USB hub is not supported.

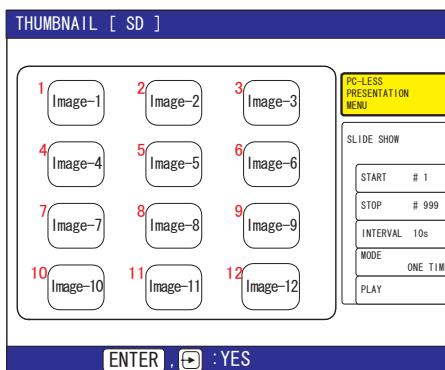


Fig. 1.2.a “PC-LESS Presentation” outlines

“PC-LESS Presentation” can be controlled via keypad on the Projector or IR Remote (図54).

You can also control using the Web remote controller, as shown in Fig. 1.2.b, which enables selecting images, switching pages and switching display modes. Web remote controller also switches mode between “Live Mode” and “PC-LESS Presentation”. (図39)

1.2 PC-LESS Presentation

(Display the images stored in SD Memory Card/USB memory.) (Continued)

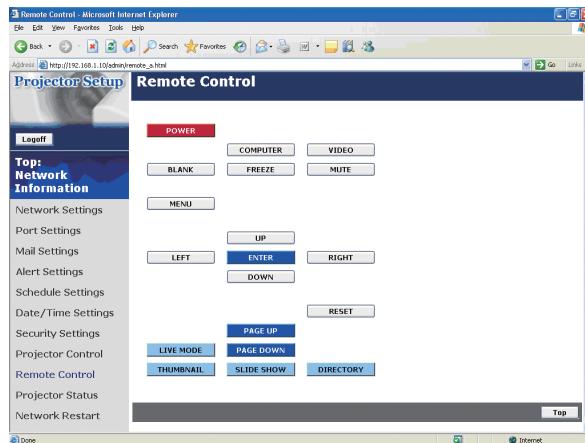


Fig. 1.2.b Remote Control

NOTE • There are several naming limitations for the folders and files.

- (1) Alphanumeric and Japanese characters are supported if the language setting is Japanese.
- (2) Alphanumeric and Latin-1 characters are supported if the language setting is NOT Japanese.

- The files may not be able to access depending on the type of USB hard disk, USB memory and USB card reader.
- It recommends to use external power supply cable if the USB hard disk drive has the power cable.

2. Equipment connection and network setting

2.1 Required equipment preparation

Followings are required for 1 projector and 1 PC connection. Multiple PC connection is described in section 4.1.

Projector: 1 unit

PC: 1 set (“MIU Live Viewer” installation is required for “Live Mode” usage.)

IEEE802.11b/g wireless LAN equipment is required.

Depending on the type of wireless network card and PC you are using, the projector may not be able to communicate properly with your PC, even if the PC you are using is equipped with built-in wireless LAN function.

To eliminate communication problems, please procure a Wi-Fi certified wireless network card.

LAN cable (in case of wired connection): 1 piece * 1

SD Wireless Network Card (in case of wireless connection): 1 unit * 2

Memory card (in case of “PC-LESS Presentation” usage): 1 piece

* 1: When a projector and a PC are connected, use CAT-5 (or greater) LAN cable.

* 2: Access point is required when wireless LAN connection is used as Infrastructure mode.

2.2 Network connection using “One-Click-Communication” function

This section explains how to connect network using “One-Click-Communication” function. This function makes PC and projector network connection very easy without complicated settings like IP address and SSID.

* This function cannot be used when multiple PCs or multiple projectors are connected.

* The system of Windows2000 Professional Service Pack 4 or Windows XP and the administrator authority are required to use “One-Click-Communication” function. (Administrator authority)

* This function only works when the network settings of the projector is the same as factory default settings.

* This function might not work depending on your used wireless LAN driver.

If so, setup the connection manually. ( 10, 16 and refer to the User Manuals for your PC and wireless equipment.)

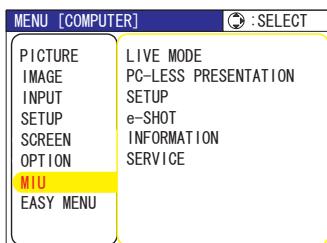
[Wired LAN connection]

1) When projector network settings such as IP address and subnet mask are changed, need to return to the projector factory default Network settings.

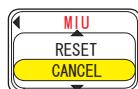
①Press the MENU button on remote control or the ▲/▼/◀/▶ button on keypad. Then OSD menu will be displayed. If Easy Menu is displayed, change the menu to Advanced Menu.

2.2 Network connection using “One-Click-Communication” function (Continued)

② Select the MIU menu by using ▲/▼ button.



③ Press the RESET button on remote control. Then Reset Menu will be displayed.



④ Press the ▲ button to reset the Network settings.

NOTE • SSID, WEP Key will be set to factory default settings.
• If you like to set these items, please set again from Web browser (☞ 19).

- 2) Connect PC and projector using LAN cable to make it ready for communication.
* In case of connecting with existing network, contact your network administrator.
- 3) Start up “MIU Live Viewer”. Window appears in Fig. 2.2.a. (☞ 41)

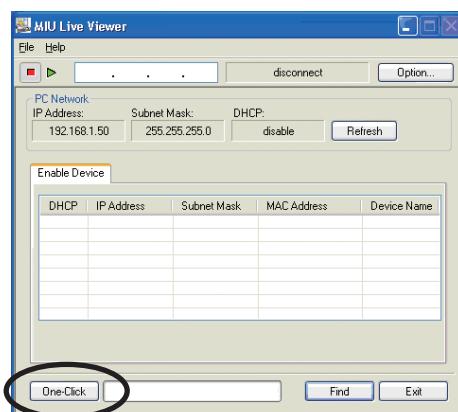


Fig. 2.2.a “MIU Live Viewer” initial window

2. Equipment connection and network setting

2.2 Network connection using “One-Click-Communication” function (Continued)

- 4) Click [**One-Click**] button in Fig. 2.2.a, then projector will be found. And the capture start button  is activated, then real time display will be started automatically.

[Wireless LAN connection]

- 1) When projector network settings such as IP address and subnet mask are changed, need to return to the projector factory default settings. ( 8)
- 2) In case IEEE802.11b/g wireless LAN device is built-in the PC, make the LAN valid and other network connections invalid. If wireless LAN device is not built in the PC, connect IEEE802.11b/g wireless LAN device and install device driver to the PC. (Refer to the user guide for wireless LAN device details.)
- 3) Start up “MIU Live Viewer”, then the window appears (Fig. 2.2.a).
- 4) Click [**One-Click**] button in Fig. 2.2.a, then projector will be found. And the capture start button  is activated, then real time display will be started automatically.

2.3 Manual network connection setting – Wired LAN -

When you need to set the original IP address and SSID other than factory default settings, need to set up network connection manually.

This section explains how to set up network connection manually.

2.3.1. Equipments connection

At first, connect projector and PC with wired LAN connection to check PC setting and connection status. Next section explains PC settings.

Connecting projector with network using LAN cable, and then set it ready to communicate with PC.

* Connecting with existing network, contact network administrator.

At last, turn on the projector. This is the end of Equipments connection.

2.3 Manual network connection setting – Wired LAN - (Continued)

2.3.2. Network settings

This is the explanation of network connection settings for Windows XP and Internet Explorer.

- 1) Log on to Windows XP as administrator authority. (*)
- 2) Open “Control Panel” from “Start” menu.
- 3) Open “Network and Internet Connections” in “Control Panel”. (Fig. 2.3.2.a)
* Administrator authority is the account, which can access to all functions.

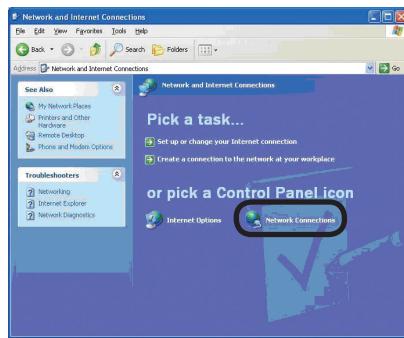


Fig. 2.3.2.a “Network and Internet Connections” window

- 4) Open “Network Connections”. (Fig. 2.3.2.b)

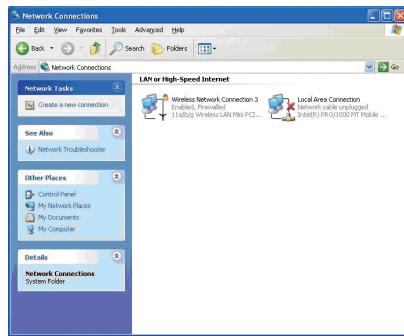


Fig. 2.3.2.b “Network Connections” window

2. Equipment connection and network setting

2.3 Manual network connection setting – Wired LAN - (Continued)

- 5) When more than 2 usable network devices exist, make only one device “Valid” that you want to use and the rest of devices “Invalid”. (In this case, “Local Area Connection” is selected.)
- 6) Open “Local Area Connection Properties” window you use for network device. (Fig. 2.3.2.c)

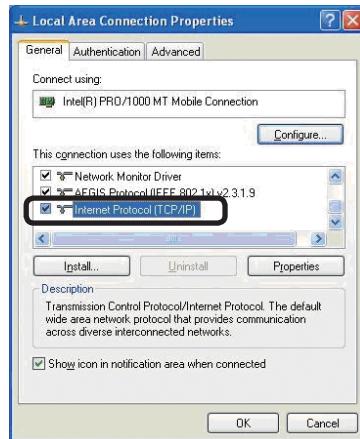


Fig. 2.3.2.c “Local Area Connection Properties” window

- 7) Set used protocol as “TCP/IP” and open “Internet Protocol (TCP/IP) Properties” window.

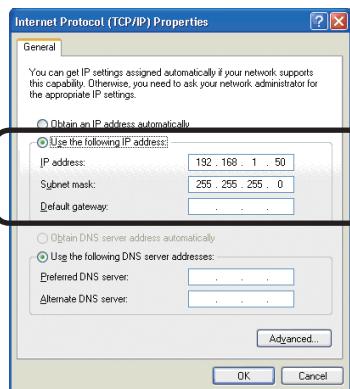


Fig. 2.3.2.d “Internet Protocol (TCP/IP) Properties” window

- 8) Set IP address, subnet mask and default gateway for PC.

2.3 Manual network connection setting – Wired LAN - (Continued)

[About IP address]

Network address of PC IP address should be common with projector's one but the PC total IP address should not be overlapped with other networked equipments.

For example, projector initial settings are as follows.

IP address: 192.168.1.10

Subnet mask: 255.255.255.0

Therefore, specify PC IP address as follows.

IP address: 192.168.1.xxx (xxx shows decimal number.)

Subnet mask: 255.255.255.0

Select from 1 to 254 for “xxx” not duplicating with any other equipments. In this case, projector has “192.168.1.10” IP address, specify from 1 to 254 except 10 for PC.

Projector IP address can be changed by using configuration utility. (☞19)

* “0.0.0.0” cannot be set to IP address.

When DHCP server exists in network, it is possible to set using IP address, which is automatically assigned to projector.

If projector and PC exist in the same network (i.e. network address is common), default gateway can be blank.

* DHCP is abbreviation for “Dynamic Host Configuration Protocol” and the function to provide necessary setting for network like IP address from server to client. Server that has DHCP function is called DHCP server.

* When projector and PC exist in different networks, default gateway setting is necessary. Contact network administrator in detail.

2. Equipment connection and network setting

2.3 Manual network connection setting – Wired LAN - (Continued)

2.3.3 “Internet Option” setting

- 1) Click “Internet Options” in “Network and Internet Connections” window (Fig. 2.3.3.a) to open “Internet Properties” window. (Fig. 2.3.3.b)

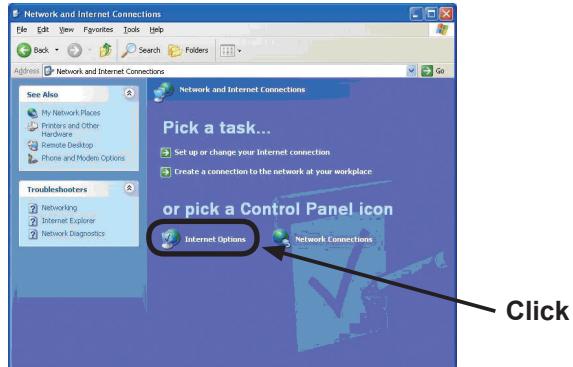


Fig. 2.3.3.a “Network and Internet Connections” window

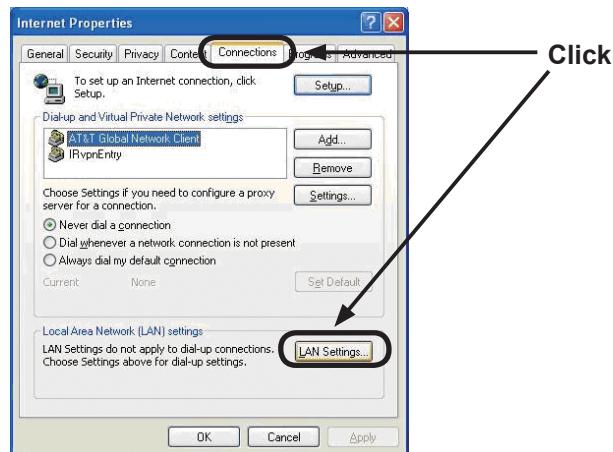


Fig. 2.3.3.b “Internet Properties” window

- 2) Click “Connections” tab and then click [**LAN Settings**] button to open “Local Area Network (LAN) settings”. (Fig. 2.3.3.c)

2. Equipment connection and network setting

2.3 Manual network connection setting – Wired LAN - (Continued)

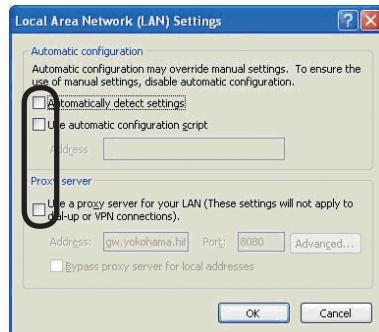


Fig. 2.3.3.c “Local Area Network (LAN) Settings” window

- 3) Uncheck all boxes in “Local Area Network (LAN) Settings” window. (Fig. 2.3.3.c)

2.3.4 Check connection

Check PC and projector are connected properly here. If it is not connected, check cable connections and settings are properly or not.

- 1) Start browser in PC and specify following URL, then click “Go” button.

URL: [http://\(Projector IP address\) /](http://(Projector IP address) /)

For example, if projector IP address is 192.168.1.10, specify

URL: <http://192.168.1.10/>

- 2) After enter your ID and password, if Fig. 2.3.4 appears, it succeeds.

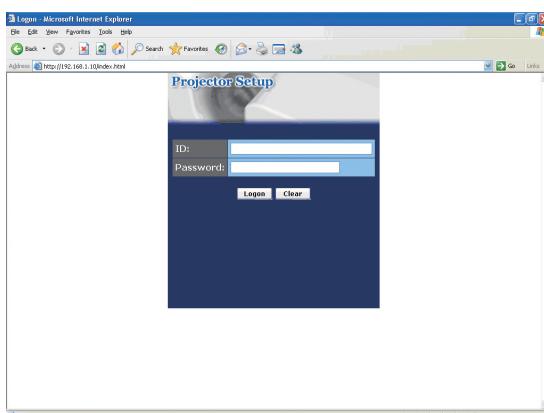


Fig. 2.3.4 “Logon Menu”

2.4 Manual network connection setting – Wireless LAN

By installing SD-Link11g card, PC and projector are able to communicate in both Ad-Hoc and Infrastructure modes.

How to set up wireless LAN connection manually.

2.4.1 Preparation for wireless LAN connection



Fig. 2.4.1.a Without access point communication (Ad-Hoc)

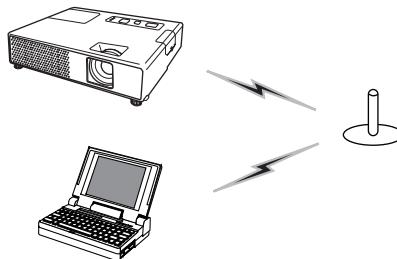


Fig. 2.4.1.b With access point communication (Infrastructure)

- * Ad-Hoc is one of the wireless LAN communication methods without having access point to communicate.
- * Infrastructure is one of the wireless LAN communication methods with having access point to communicate. If certain quantities of equipments are used, this mode is efficient.
If communicating with existing network, contact your network administrator.

First, insert the SD wireless network card into SD card slot ([Using an SD card of the User's Manual - Operating Guide](#)).

Then, make PC ready for wireless communication.

In case IEEE802.11b/g wireless LAN device is built-in the PC, make it valid and make other network connections invalid. If wireless LAN device is not built-in the PC, connect IEEE802.11b/g wireless LAN device and install device driver. (Refer to the user guide for PC and wireless LAN device for detail.)

2.4 Manual network connection setting – Wireless LAN (Continued)

2.4.2 Wireless LAN connection set up

Using wireless LAN utility for Windows XP standard.

Wireless LAN initial settings for the projector is as follows.

Connection Control : Ad-Hoc
 SSID : wireless
 Channel : 1ch
 Encryption rating : None
 Communication speed: AUTO
 IP address : 192.168.1.10

* You can change these settings as you want. Use configuration utility or menu to change. (Fig. 19)

1) Open "Network Connections". (Fig. 2.4.2.a)

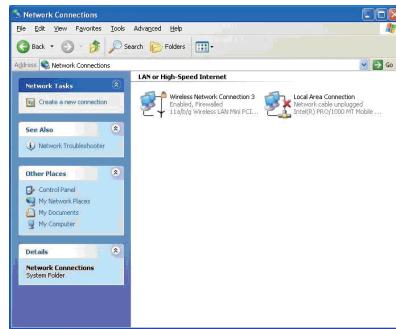


Fig. 2.4.2.a "Network Connections"

2) Make wireless network connection "Valid" and other network devices "Invalid".

3) Open "Wireless Network Connection Properties". (Fig. 2.4.2.b)



Fig. 2.4.2.b "Wireless Network Connection Properties" window (1)

2. Equipment connection and network setting

2.4 Manual network connection setting – Wireless LAN (Continued)

- 4) Set used protocol as “TCP/IP” and open TCP/IP property. Set IP address and other settings as same as wired LAN connection set up. (Fig. 12)
- 5) Open “Wireless Networks” tab. (Fig. 2.4.2.c)

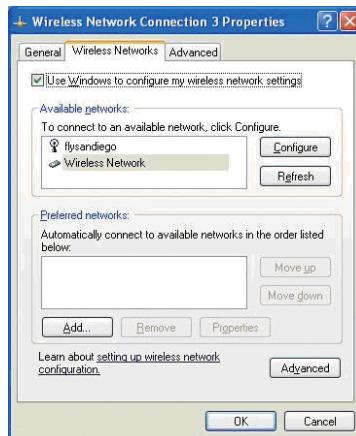


Fig. 2.4.2.c “Wireless Network Connection Properties” window (2)

- 6) Add check mark for “Use Windows to configure my wireless network settings” in “Wireless Network Connection Properties” window.
- 7) Click [Add] button in “Preferred networks” section in “Wireless Network Connection Properties” window (Fig. 2.4.2.c) to open “Wireless network properties” window. (Fig. 2.4.2.d)

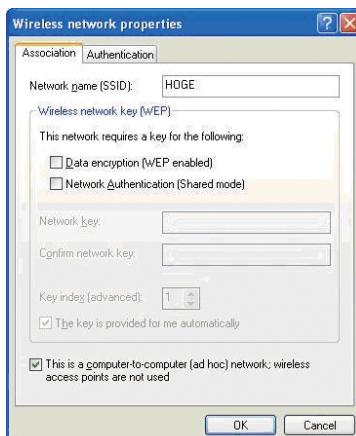


Fig. 2.4.2.d “Wireless network properties” window

2.4 Manual network connection setting – Wireless LAN (Continued)

8) Set each item as follows.

Network name (SSID): wireless

Data encryption: not enabled (Default setting is not enabled.)

* This explanation meets the projector default setting. If access point is used or data encryption is used, if needs to change settings properly. Refer to PC or wireless LAN device user guide for detailed information.

* If using the existing network via access point, contact your network administrator.

2.5 Configuring and controlling the projector via a web browser

You can adjust or control the projector via a network from a web browser on a PC that is connected to the same network.

NOTE • Internet Explorer 5.5 or higher are required.

- If JavaScript is disabled in your web browser configuration, you must enable JavaScript in order to use the projector web pages properly. See the Help files for your web browser for details on how to enable JavaScript.
- If projector is disconnected from network approx. 50 seconds, system will automatically log off. Please Re-log on to continue operations via a web browser.
- After you log on, a small blank window will appear behind the main operation window. Please do not close this small blank window. If this window is closed, the system will automatically log off after certain period of time even if an operation is being performed.

The small blank window will close when the main operation window is closed.

- The small blank window may be considered a pop-up and be blocked if you are using Windows XP Service Pack 2, or using other security software.

If Service Pack 2 blocks the window the following message will appear:

"Pop-up blocked. To see this pop-up or additional options click here..."

Please select "Temporarily Allow Pop-ups" or "Always Allow Pop-ups From This Site..." to allow the window to open.

- It is recommended that all web browser updates be installed. It is especially recommended that all users running Internet Explorer on a Microsoft Windows version prior to Windows XP Service Pack 2 install security update Q832894 (MS04-004) or the web browser interface may not be displayed correctly.

And when using an older version of Internet Explorer, during operations the browser will log out after 50 seconds.

2. Equipment connection and network setting

2.5 Configuring and controlling the projector via a web browser (Continued)

When configuring or controlling the projector via a web browser, an ID and password are required. There are two types of IDs, Administrator IDs and User IDs. The following chart describes the differences between user and administrator IDs.

Item	Description	Administrator ID	User ID
Network Information	Displays the projector's current network configuration settings.	✓	✓
Network Settings	Displays and configures network settings.	✓	N/A
Port Settings	Displays and configures communication port settings.	✓	N/A
Mail Settings	Displays and configures e-mail addressing settings.	✓	N/A
Alert Settings	Displays and configures failure & warning alerts.	✓	N/A
Schedule Settings	Displays and configures schedule settings.	✓	N/A
Date/Time Settings	Displays and configures the date and time settings.	✓	N/A
Security Settings	Displays and configures passwords and other security settings.	✓	N/A
Projector Control	Controls the projector.	✓	✓
Remote Control	Controls the projector like IR remote.	✓	✓
Projector Status	Displays and configures the current projector status.	✓	✓
Network Restart	Restarts the projector's network connection.	✓	N/A

Below are the factory default settings for administrator IDs, user IDs and passwords.

Item	ID	Password
Administrator ID	Administrator	<blank>
User ID	User	<blank>

2. Equipment connection and network setting

2.5 Configuring and controlling the projector via a web browser (Continued)

Refer to the following for configuring or controlling the projector via a web browser.
Example: If the IP address of the projector is set to 192.168.1.10:

1) Enter

[<http://192.168.1.10/>] into the address bar of the web browser and the screen in Fig. 2.5.a will be displayed.

2) Enter your ID and password and click [Logon].

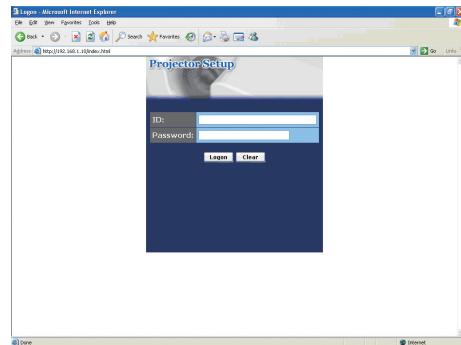


Fig. 2.5.a "Logon Menu"

If the logon is successful either the Fig.2.5.b or Fig.2.5.c screen will be displayed.

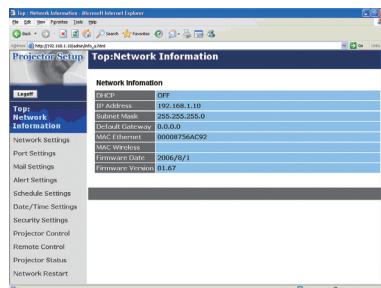


Fig. 2.5.b "Logon with administrator ID"



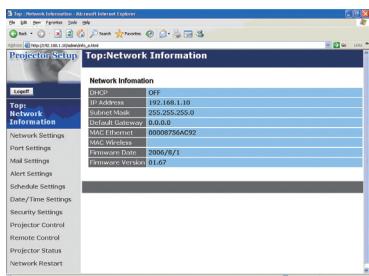
Fig. 2.5.c "Logon with user ID"

3) Click the desired operation or configuration item on the main menu located on the left-hand side of the screen (Fig. 2.5.b or Fig. 2.5.c).

2. Equipment connection and network setting

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.1 Network Information



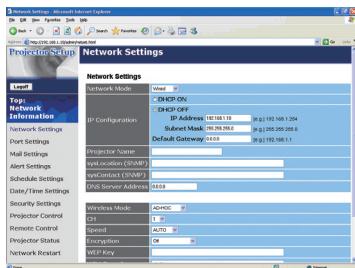
All screen images displayed in this manual are screens of a logon using an administrator ID. Any administrator only functions will not be displayed when using a user ID. Refer to the descriptions in each table.

Displays the projector's current network configuration settings.

Item	Description
DHCP	Displays the DHCP configuration settings.
IP Address	Displays the current IP address.
Subnet Mask	Displays the Subnet Mask.
Default Gateway	Displays the Default Gateway.
MAC Ethernet	Displays the Ethernet MAC address.
MAC Wireless	Displays the Wireless LAN MAC address. NOTE • MAC wireless will not be displayed when the NETWORK MODE is set to the WIRED even if the wireless network card is mounted. (MIU Menu of the <i>User's Manual - Operating Guide</i>)
Firmware Date	Displays the network firmware time stamp. This information is only displayed when logged on using an administrator ID.
Firmware Version	Displays the network firmware version number. This information is only displayed when logged on using an administrator ID.

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.2 Network Settings



Displays and configures network settings.

Item	Description
Network Mode	Select Network mode "Wired" or "Wireless".
IP Configuration	Configures network settings.
DHCP ON	Enables DHCP.
DHCP OFF	Disables DHCP.
IP Address	Configures the IP address when DHCP is disabled.
Subnet Mask	Configures the Subnet Mask when DHCP is disabled.
Default Gateway	Configures the Default Gateway when DHCP is disabled.
Projector Name	Configures the Projector name. The length of the Projector Name can be up to 64 alphanumeric characters. Numbers '0-9' and alphabet 'a-z', 'A-Z' and symbols can be used.
sysLocation (SNMP)	Configures the location to be referred to when using SNMP. The length of the sysLocation can be up to 255 alphanumeric characters. Only numbers '0-9' and alphabet 'a-z', 'A-Z' can be used.
sysContact (SNMP)	Configures the contact information to be referred to when using SNMP. The length of the sysContact can be up to 255 alphanumeric characters. Only numbers '0-9' and alphabet 'a-z', 'A-Z' can be used.
DNS Server Address	Configures the DNS Server address.

2. Equipment connection and network setting

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.2 Network Settings (Continued)

Item	Description
Wireless Mode	Select "AD-HOC" or "Infrastructure".
CH (Communication channel)	Select using channel between "1" and "11". NOTE • Depending on the country where you are the channels may vary. In addition, depending on the country or region where you are may be required to use a wireless network card that conform to the standards in the respective country or region.
Speed (Communication speed)	Select communication speed.
Encryption	Select data encryption method.
WEP Key	Input WEP key, which has same length defined by WEP. When "64bit" or "128bit" is selected, input 10 characters or 26 characters respectively. Only numbers from "0" to "9" and alphabets from "a" to "f" can be used. Enter the series of two characters pair. It will be cleared by 0, if the total length is odd.
WPA Passphrase	Input WPA Passphrase. Available number of input characters is 8 to 63. Only alphabets, numbers and following symbols can be used. !"#\$%&'()*+,-./[]^_`{} ~
SSID	Set SSID. Maximum number of input characters is 32. Only alphabets, numbers and following symbols can be used. !"#\$%&'()*+,-./[]^_`{} ~

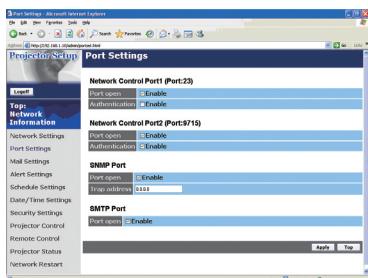
Click the [Apply] button to save the settings.

NOTE • The new configuration settings are activated after restarting the network connection. When the configuration settings are changed, you must restart the network connection. You can restart the network connection by clicking [Network Restart] on the main menu.

- If you connect the projector to an existing network, consult a network administrator before setting server addresses.
- The WEP Key, WPA passphrase and SSID settings will not be set if the invalid characters are used.

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.3 Port Settings



Displays and configures communication port settings.

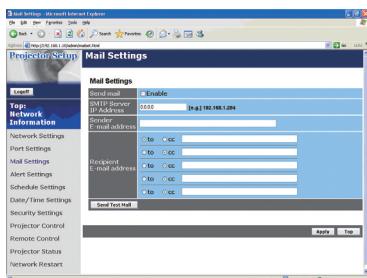
Item	Description
Network Control Port1 (Port:23)	Configures command control port 1 (Port:23).
Port open	Click the [Enable] check box to use port 23.
Authentication	Click the [Enable] check box when authentication is required for this port.
Network Control Port2 (Port:9715)	Configures command control port 2 (Port:9715).
Port open	Click the [Enable] check box to use port 9715.
Authentication	Click the [Enable] check box when authentication is required for this port.
SNMP Port	Configures the SNMP port.
Port open	Click the [Enable] check box to use SNMP.
Trap address	Configures the destination of the SNMP Trap in IP format.
SMTP Port	Configures the SMTP port.
Port open	Click the [Enable] check box to use the e-mail function.

Click the [Apply] button to save the settings.

2. Equipment connection and network setting

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.4 Mail Settings



Displays and configures e-mail addressing settings.

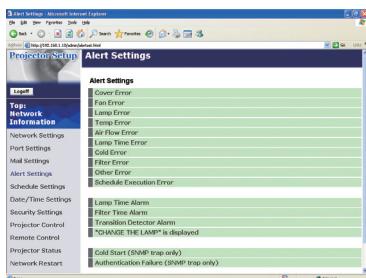
Item	Description
Send mail	Click the [Enable] check box to use the e-mail function. Configure the conditions for sending e-mail under [Alert Settings] .
SMTP Server IP Address	Configures the address of the mail server in IP format. NOTE • The address allows not only IP address but also domain name if the valid DNS server is setup in the Network Settings. The maximum length of host or domain name is up to 255 characters.
Sender E-mail address	Configures the sender e-mail address. The length of the sender e-mail address can be up to 255 alphanumeric characters.
Recipient E-mail address	Configures the e-mail address of up to five recipients. You can also specify [TO] or [CC] for each address. The length of the recipient e-mail address can be up to 255 alphanumeric characters.

Click the **[Apply]** button to save the settings.

NOTE • You can confirm whether the mail settings work correctly using the **[Send Test Mail]** button. Please enable Send mail setting before clicking **[Send Test Mail]**.
• If you connect the projector to an existing network, consult a network administrator before setting server addresses.

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.5 Alert Settings



Displays and configures failure & warning alerts.

Alert Item	Description
Cover Error	The lamp cover has not been properly fixed.
Fan Error	The cooling fan is not operating.
Lamp Error	The lamp does not light, and there is a possibility that interior portion has become heated.
Temp Error	There is a possibility that the interior portion has become heated.
Air Flow Error	The internal temperature is rising.
Lamp Time Error	Lamp time over.
Cold Error	There is a possibility that the interior portion has become overcooled.
Filter Error	Filter time over.
Other Error	Other error. If displaying this error, please contact your dealer.
Schedule Execution Error	Schedule Execution error. (29)
Lamp Time Alarm	Lamp time over Alarm Time setting.
Filter Time Alarm	Filter time over Alarm Time setting.
Transition Detector Alarm	Transition Detector Alarm. (OPTION Menu of the User's Manual - Operating Guide)
"CHANGE THE LAMP" is displayed.	"CHANGE THE LAMP" is displayed.
Cold Start	The main power switch has been turned on. (Off → standby mode)
Authentication Failure	The SNMP access is detected from the invalid SNMP community.

Refer to "*User's Manual – Troubleshooting*" for further detailed explanation of Error except Other Error and Schedule Execution Error.

2.5 Configuring and controlling the projector via a web browser (Continued)**2.5.5 Alert Settings (Continued)**

The Alert Items are shown below.

Setting Item	Description
Alarm Time	Configures the time to alert. (Only Lamp Time Alarm and Filter Time Alarm.)
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts.
Send Mail	Click the [Enable] check box to enable e-mail alerts. (Except Cold Start and Authentication Failure.)
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters. (Except Cold Start and Authentication Failure.)
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters. (Except Cold Start and Authentication Failure.)

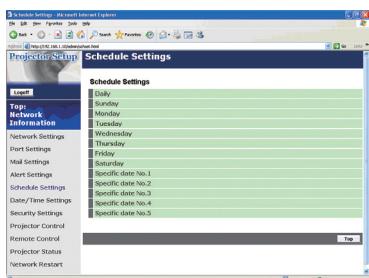
Click the [**Apply**] button to save the settings.

NOTE • The trigger of Filter Error e-mail is depending on the Filter Message settings in the SERVICE menu which defines the period of Filter Message on the projector screen. The e-mail will be sent when the filter timer exceeds 50, 100, 200 or 300 hours based on the configuration. No notification e-mail will be sent if the configuration is TURN OFF. ( **OPTION Menu** of the *User's Manual - Operating Guide*)

- Lamp Time Alarm is defined as a threshold for e-mail notification (reminder) of the lamp timer. When the lamp hour exceeds this threshold that is configured through the Web page, the e-mail will be sent out.
- Filter Time Alarm is defined as a threshold for e-mail notification (reminder) of the filter timer. When the filter hour exceeds this threshold, the e-mail will be sent out.

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.6 Schedule Settings



Displays and configures schedule settings.

Item	Description
Daily	Configures the daily schedule.
Sunday	Configures the Sunday schedule.
Monday	Configures the Monday schedule.
Tuesday	Configures the Tuesday schedule.
Wednesday	Configures the Wednesday schedule.
Thursday	Configures the Thursday schedule.
Friday	Configures the Friday schedule.
Saturday	Configures the Saturday schedule.
Specific date No.1	Configures the specific date (No.1) schedule.
Specific date No.2	Configures the specific date (No.2) schedule.
Specific date No.3	Configures the specific date (No.3) schedule.
Specific date No.4	Configures the specific date (No.4) schedule.
Specific date No.5	Configures the specific date (No.5) schedule.

2. Equipment connection and network setting

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.6 Schedule Setting (Continued)

The daily and weekly event items are shown below.

Item	Daily & Weekly Description
Schedule	Click the [Enable] check box to enable the scheduling.
Schedule List	Displays the current schedule.

The specific date event items are shown below.

Item	Specific date (No.1-5) Description
Schedule	Click the [Enable] check box to enable specific date (No.1-5) scheduling.
Date (Month/Day)	Configures the Month and date.
Schedule List	Displays the current specific date (No.1-5) schedule.

Click the [Apply] button to save the settings.

To add additional functions and events click the [Add] button and set the following items.

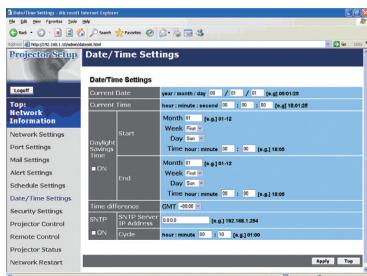
Item	Description
Time	Configures the time to execute commands.
Command [Parameter]	Configures the commands to be executed.
Power	Configures the parameters for power control.
Input Source	Configures the parameters for input switching.
Display Image	Configures the parameters for display of transfer image data.

Click the [Register] button to add new commands to the Schedule List.

Click the [Delete] button to delete commands from the Schedule List.

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.7 Date/Time Settings



Displays and configures the date and time settings.

Item	Description
Current Date	Configures the current date in year/month/day format.
Current Time	Configures the current time in hour:minute:second format.
Daylight Savings Time	Click the [ON] check box to enable daylight savings time and set the following items.
Start	Configures the date and time daylight savings time begins.
Month	Configures the month daylight savings time begins (1~12).
Week	Configures the week of the month daylight savings time begins (First, 2, 3, 4, Last).
Day	Configures the day of the week daylight savings time begins (Sun, Mon, Tue, Wed, Thu, Fri, Sat).
Time [hour]	Configures the hour daylight savings time begins (0 ~ 23).
Time [minute]	Configures the minute daylight savings time begins (0 ~ 59).
End	Configures the date and time daylight savings time ends.
Month	Configures the month daylight savings time ends (1 ~ 12).
Week	Configures the week of the month daylight savings time ends (First, 2, 3, 4, Last).
Day	Configures the day of the week daylight savings time ends (Sun, Mon, Tue, Wed, Thu, Fri, Sat).
Time [hour]	Configures the hour daylight savings time ends (0 ~ 23).
Time [minute]	Configures the minute daylight savings time ends (0 ~ 59).

2. Equipment connection and network setting

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.7 Date/Time Settings (Continued)

Item	Description
Time difference	Configures the time difference. Set the same time difference as the one set on your PC. If unsure, consult your IT manager.
SNTP	Click the [ON] check box to retrieve Date and Time information from the SNTP server and set the following items.
SNTP Server IP Address	Configures the SNTP server address in IP format. NOTE • The address allows not only IP address but also domain name if the valid DNS server is setup in the Network Settings. The maximum length of host or domain name is up to 255 characters.
Cycle	Configures the interval at which to retrieve Date and Time information from the SNTP server. (hours:minutes).

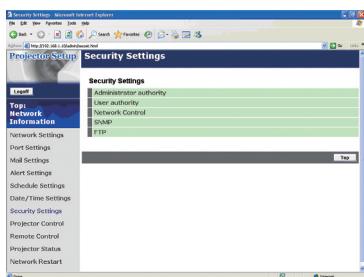
Click the [Apply] button to save the settings.

NOTE • If you connect the projector to an existing network, consult a network administrator before setting server addresses.

- To enable the SNTP function, the time difference must be set.
- The projector will retrieve Date and Time information from the time server and override time settings when SNTP is enabled.
- The Internal Clock's time may not remain accurate. Using SNTP is recommended to maintain accurate time.

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.8 Security Settings



Displays and configures passwords and other security settings.

Item	Description
Administrator authority	Configures the Administrator ID and Password.
Administrator ID	Configures the Administrator ID. The length of the text can be up to 32 alphanumeric characters.
Administrator Password	Configures the Administrator Password. The length of the text can be up to 255 alphanumeric characters.
Re-enter Administrator Password	Used to re-enter the above password for verification.
User authority	Configures the User ID and Password.
User ID	Configures the User ID. The length of the text can be up to 32 alphanumeric characters.
User Password	Configures the User Password. The length of the text can be up to 255 alphanumeric characters.
Re-enter User Password	Used to re-enter the above password for verification.

2. Equipment connection and network setting

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.8 Security Settings (Continued)

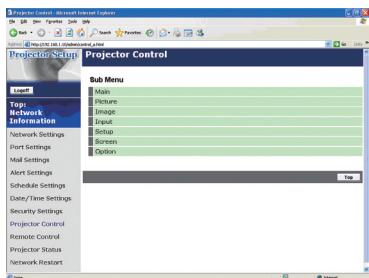
Item	Description
Network Control	Configures the Authentication Password for the command control.
Authentication Password	Configures the Authentication Password. The length of the text can be up to 32 alphanumeric characters.
Re-enter Authentication Password	Used to re-enter the above password for verification.
SNMP	Configures the community name if SNMP is used.
Community name	Configures the community name. The length of the text can be up to 64 alphanumeric characters.
FTP	Configures the FTP user and password.
User	Configures the user name. The length of the text can be up to 32 alphanumeric characters.
Password	Configures the password. The length of the text can be up to 32 alphanumeric characters.
Re-enter Password	Use to re-enter the above password for verification.

Click the [Apply] button to save the settings.

NOTE • Only numbers '0-9' and alphabet 'a-z', 'A-Z' can be used.

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.9 Projector Control



The items shown in the table below can be performed using the [Projector Control] menu. Select an item using the up and down arrow keys on the PC.

Most of the items have a submenu. Refer to the table below for details.

NOTE • The setting value may not match with the actual value if the user changes the value manually. In that case, please refresh the page by clicking [Refresh] button.

Controls the projector.

Item	Description
Main	
Power	Turns the power On/Off.
Input Source	Selects the input source.
Picture Mode	Selects the Picture Mode setting.
Blank On/Off	Turns Blank On/Off.
Mute	Turns Mute On/Off.
Freeze	Turns Freeze On/Off.
Magnify	Controls the Magnify setting. In some input signal sources, it might stop "Magnify" even though it does not reach to maximum setting value. The variable range: <ul style="list-style-type: none">• For a computer, component or MIU signal 0-48• For a video or s-video signal 0-16
Picture	
Brightness	Adjusts the Brightness setting.
Contrast	Adjusts the Contrast setting.
Gamma	Selects the Gamma setting.
Color Temp	Selects the Color Temp setting.
Color	Adjusts the Color setting.
Tint	Adjusts the Tint setting.
Sharpness	Adjusts the Sharpness setting.
MyMemory Save	Saves the MyMemory data.
MyMemory Recall	Recalls the MyMemory data.

2. Equipment connection and network setting

2.5 Configuring and controlling the projector via a web browser (Continued)

2.5.9 Projector Control (Continued)

Item	Description
Image	
Aspect	Selects the Aspect setting.
Over Scan	Adjusts the Over Scan setting.
V Position	Adjusts the V Position.
H Position	Adjusts the H Position.
H Phase	Adjusts the H Phase.
H Size	Adjusts the H Size.
Auto Adjust Execute	Performs Auto Adjustment.
Input	
Progressive	Selects the progressive setting.
Video NR	Selects the Video NR setting.
Color Space	Selects the Color Space.
C-Video Format	Selects the Video Format setting.
S-Video Format	Selects the S-Video Format setting.
Frame Lock	Turns the Frame lock function On/Off.
Computer in	Selects the computer input signal type.
Setup	
Auto Keystone Execute	Performs the Automatic keystone distortion correction.
Keystone	Adjusts the Vertical Keystone setting.
Whisper	Selects the Whisper mode.
Mirror	Selects the Mirror status.
Volume	Adjusts the Volume setting.
Audio-MIU	Assigns the Audio-MIU input terminal.

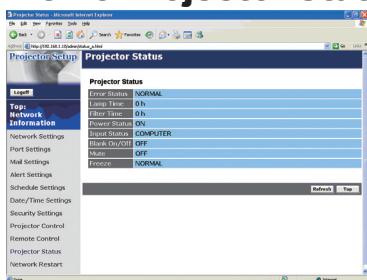
2.5 Configuring and controlling the projector via a web browser (Continued)**2.5.9 Projector Control (Continued)**

Item	Description
Screen	
Language	Selects the Language for the OSD.
Menu Position V	Adjusts the vertical Menu Position.
Menu Position H	Adjusts the horizontal Menu Position.
Blank	Selects the Blank mode.
Startup	Selects the Startup screen mode.
MyScreen Lock	Turns MyScreen lock function On/Off.
Message	Turns the Message function On/Off.
Option	
Auto Search	Turns the Automatic signal search function On/Off.
Auto Keystone	Turns the Automatic keystone distortion correction function On/Off.
Auto on	Turns the Auto on function On/Off.
Auto off	Configures the timer to shut off the projector when no signal is detected.
My Button-1	Assigns the functions for the MY BUTTON1 buttons on the included remote control.
My Button-2	Assigns the functions for the MY BUTTON2 buttons on the included remote control.
Remote Freq. Normal	Enables/Disables Remote Frequency Normal.
Remote Freq. High	Enables/Disables Remote Frequency High.

2. Equipment connection and network setting

2.5 Configuring and controlling the projector via a web browser (Continued)

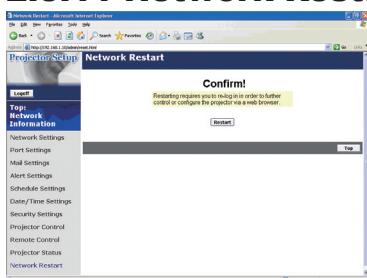
2.5.10 Projector Status



Displays and configures the current projector status.

Item	Description
Error Status	Displays the current error status
Lamp Time	Displays the usage time for the current lamp.
Filter Time	Displays the usage time for the current filter.
Power Status	Displays the current power status.
Input Status	Displays the current input signal source.
Blank On/Off	Displays the current Blank On/Off status.
Mute	Displays the current Mute On/Off status.
Freeze	Displays the current Freeze status.

2.5.11 Network Restart



Restarts the projector's network connection.

Item	Description
Restart	Restarts the projector's network connection in order to activate new configuration settings.

NOTE • Restarting requires you to re-log on in order to further control or configure the projector via a web browser. Wait 10 seconds or more after clicking [**Restart**] button to log on again in order to further control or configure the projector via a web browser.

2.5.12 Logoff

When [**Logoff**] button is clicked, the logon screen is displayed (☞ Fig. 2.5.a).

2.6 Utilize Web Remote Control

You can use your Web browser to remote control the projector once the projector is properly configured and connected to your PC via the wireless network card or via wired LAN.

NOTE • Do not attempt to control the projector with the projector's remote control and via your Web browser at the same time. Attempt to do so may causes a projector operational error.

Open browser when it is possible to communicate with projector. Corresponding browser is Internet Explorer 5.5 or later.

Specify http://(projector IP address)/ to start.

For example, http://192.168.1.10/

(Input this URL when IP address is not changed.)

After start up, enter your ID and password, and click [**Logon**]. Following window appears as shown in Fig. 2.6.a.

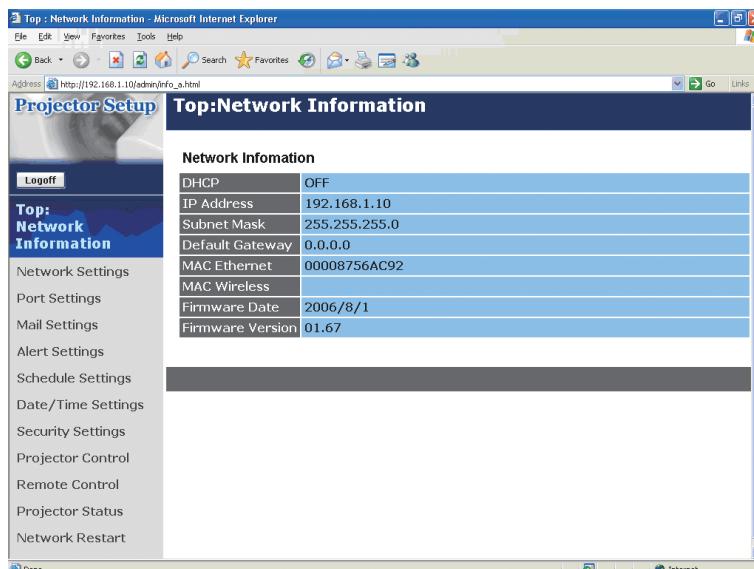


Fig. 2.6.a Utility selection window for Web Remote Control

2. Equipment connection and network setting

2.6 Utilize Web Remote Control (Continued)

Click “Remote Control” in this window to display Web Remote Control as shown in Fig.2.6.b.

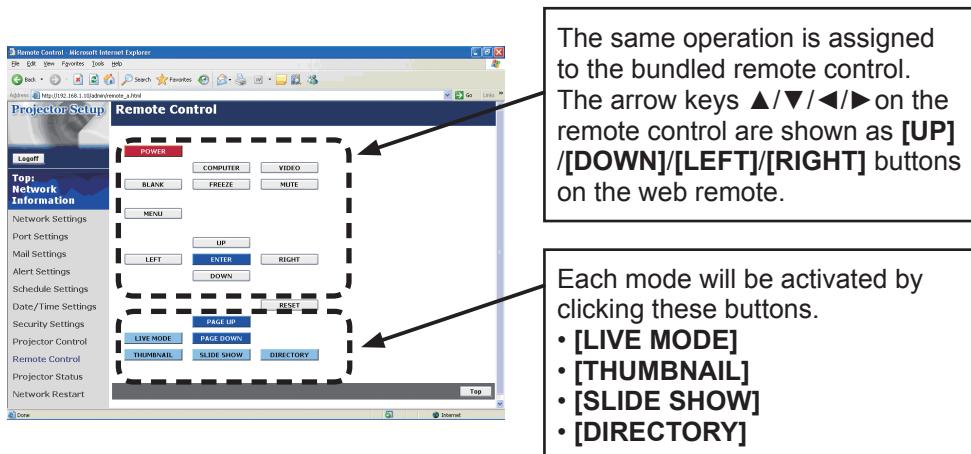


Fig. 2.6.b Web Remote Control

NOTE • Web Remote Control does not support repeat function when it is kept clicking.

- Since automatic repeat function is not available, click the button necessary times to reach your demand.
- If you click the button continuously, some command will not be transferred. Wait for a while, and Click again.
- When the **[POWER]** button is pushed, a message window comes up to confirm the operation. If you wish to turn it off, push **[OK]**, otherwise push **[CANCEL]**.
- **[PAGE DOWN]** and **[PAGE UP]** buttons on web remote control can not be used as mouse emulation function of the projector.

3. How to use Projector software – Basics -

3.1 How to use “MIU Live Viewer”

This section explains how to use the “MIU Live Viewer”.

3.1.1 Install “MIU Live Viewer”

In order to use the projector with a PC for Live Mode, you will first need to install the accompanying software on all the PCs you will be using.

Minimum PC Hardware and Software Requirements

- OS: Windows 2000 Professional Service Pack4,
Windows XP Home Edition/Professional
- Graphic Interface: DirectX 6.1a or higher;
Video RAM 4MB or higher (8MB recommended)
- CPU: Pentium III (600MHz or higher recommended)
- Display: VGA 640x480 or higher (XGA 1024x768 recommended) 65,536
simultaneous colors or higher

NOTE • Set your PC's resolution to XGA or less.

- In some cases, Screen will not be displayed correctly. If the received image resolution is larger than 1024x768, projector can display only the 1024x768 portion of the image.
- Images might not been transmitted, caused by OS version or the driver software for Network Adaptor.

It is highly recommended that OS and the driver should be updated to the latest.

- Memory: 64MB or higher (128MB or higher if using Windows XP)
- Available Hard Disk Space: 10MB or higher
- Web browser: Internet Explorer® (5.5 or higher)
- CD-ROM drive

- PC with PC card slot (PCMCIA Type-II) interface and IEEE802.11b/g wireless LAN PC card or PC with USB Interface and IEEE802.11b/g wireless LAN USB adaptor.

NOTE • Not required for PCs with built-in 802.11g wireless LAN.

- Depending on the type of wireless network card and PC you are using, the projector may not be able to communicate properly with your PC, even if the PC you are using is equipped with built-in wireless LAN functionality.

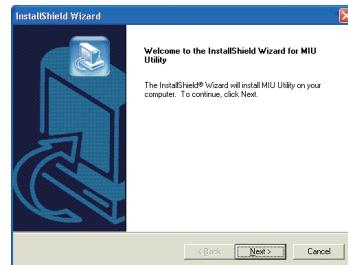
Should communication problems occur, please procure a Wi-Fi certified wireless network card.

3. How to use Projector software – Basics -

3.1 How to use “MIU Live Viewer” (Continued)

3.1.2 Software Installation Procedure

- 1) Turn on the PC.
- 2) Shut down all applications.
- 3) Insert the accompanying CD-ROM into the PC's CD-ROM drive.
- 4) After a moment, the Welcome to MIU Utilities Setup dialog will appear as shown on the right. Press **[Next]**.



NOTE If the Welcome to MIU Utilities Setup dialog doesn't appear, proceed as follows:

- (1) Click on the **[Start]** button on the toolbar and select “Run”.
- (2) Enter **E:\software\setup.exe** and then press **[OK]**.

↑
If your CD-ROM drive is not drive E on your PC, you will need to replace E with the correct drive letter assigned to your CD-ROM drive.

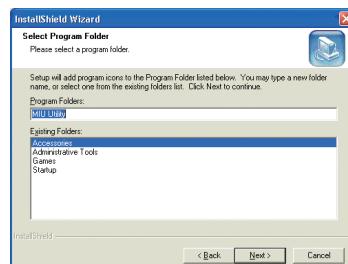
If software has been already installed, Uninstallation will be done. Click the **[Cancel]** button, then uninstallation will be canceled. If you uninstalled the software by miss-operation, please re-install the software from first procedure.

- 5) The License Agreement dialog appears. If you accept it, press the **[Yes]**.
- 6) The Choose Destination Location dialog appears. Press **[Next]**.



NOTE • The C:\Program Files\MIU_Utility folder will be created and the program will be installed into that folder. If you wish to install to a different folder, click **[Browse]** and select another folder.

- 7) Confirm the program folder name. If “MIU_Utility” is okay, press **[Next]** to continue. If not, enter the desired folder name and then press **[Next]**.



3.1 How to use “MIU Live Viewer” (Continued)

- 8) The Hardware Installation dialog appears.
Press Continue Anyway.
- 9) After a moment, installation will complete and the Setup Complete dialog will appear as shown on the right. Click [Finish].
This completes the software installation. Then your PC automatically restarts.
- (1) To confirm that the software has been properly installed, press the [Start] button on the toolbar, select All Programs and then select the MIU Utility folder.
- (2) MIU Live Viewer will appear in that folder if the installation was successful.



3.1.3 Explanation of “MIU Live Viewer”

Double click “MIU_LiveViewer.exe” to start up. Fig. 3.1.3.a appears on your screen.

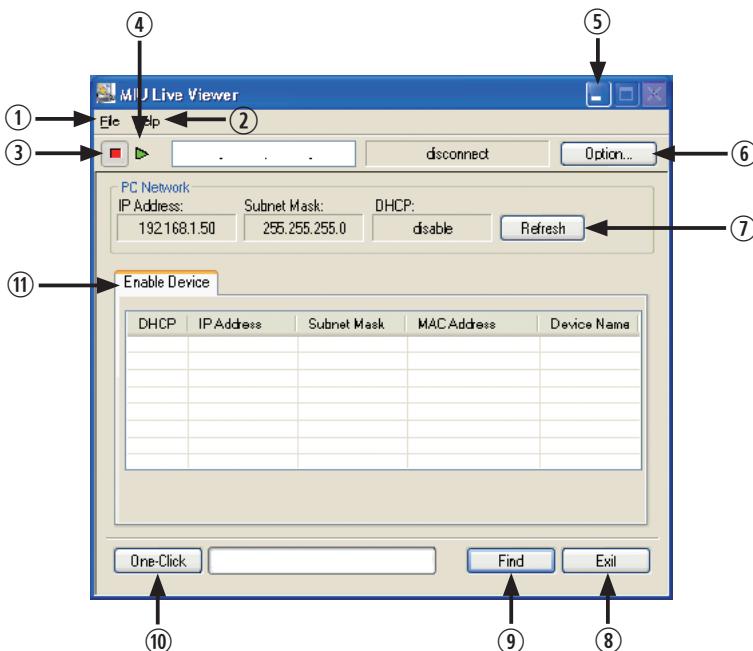


Fig. 3.1.3.a “MIU Live Viewer” Window

3.1 How to use “MIU MIU Live Viewer” (Continued)

[“MIU Live Viewer” window: Fig. 3.1.3.a]

- 1) “File” menu
Display file menu.
- 2) “Help” menu
Display “MIU Live Viewer” information.
- 3) Stop button
Stop real time display.
- 4) Capture start button
Start real time display.

NOTE • Pictures are not displayed correctly when the start/stop buttons are clicked repeatedly.

- 5) Minimize button
Close “MIU Live Viewer” window and display “MIU Live Viewer” as icon on the task tray.
- 6) **[Option]** button
Display Option window.
- 7) **[Refresh]** button
Refresh the current PC network setting.
- 8) **[Exit]** button
Terminate “MIU Live Viewer”.
- 9) **[Find]** button
Search connectable projectors.
- 10) **[One-Click]** button
Connect projector and PC without network setting of the PC.
- 11) “Enable Device”
Display network-connectable projector list.

3.1 How to use “MIU Live Viewer” (Continued)

[“Options” window]

[“General” tab, Fig. 3.1.3.b]

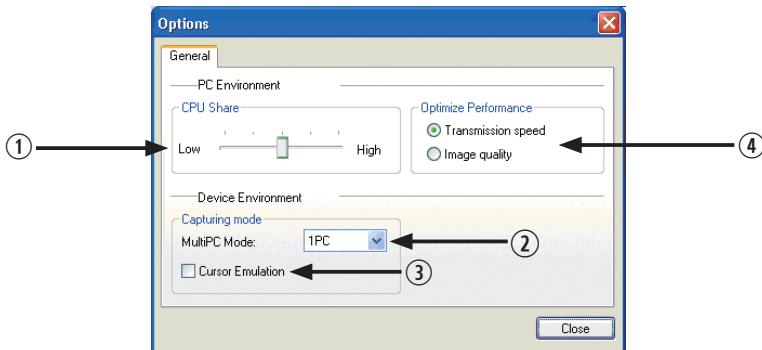


Fig.3.1.3.b “Options”, “General” tab

1) CPU Share

Set up any capturing performance on the PC screen by using control bar.

Low (At the far left): Set this position when many CPU resources are required by applications other than “MIU Live Viewer”. This setting is not good for displaying frequently changed patterns due to decrease in screen refresh rate by “MIU Live Viewer” performance degrading.

High (At the far right): Set this position when “MIU Live Viewer” requires many CPU resources. Screen refresh rate increases when “MIU Live Viewer” is used, but decreases the speed of other application speed.

2) MultiPC Mode

Select connected PC quantity from 1PC to 4PCs.

3) Cursor Emulation

Enabling this function “ON”, display cursor (pointer) prepared by this projector when cursor is not displayed on output screen. Take out check mark to make it “OFF” when PC and projector both cursors are displayed.

4) Optimize Performance

Set optimization type. You can choose from optimizing transmission speed or image quality by clicking the radio button.

Transmission speed: Optimizes the speed of transmission.

Image quality: Optimizes the quality of image.

3.1 How to use “MIU Live Viewer” (Continued)

[Icon in task tray]

To display “MIU Live Viewer” icon in task tray, click Minimize button in “MIU Live Viewer” window. The icon with yellow thunder mark shows that communication is connected, and it with red cross mark shows that it is disconnected. (Fig. 3.1.3.d shows while communication is connected.)

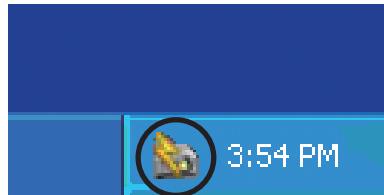


Fig. 3.1.3.d Icon in task tray

Double click “MIU Live Viewer” icon in task tray to display “MIU Live Viewer” window.

3.1 How to use “MIU Live Viewer” (Continued)

3.1.4 Utilize “MIU Live Viewer” – Basic -

This section explains basic of how to use “MIU Live Viewer” functions.

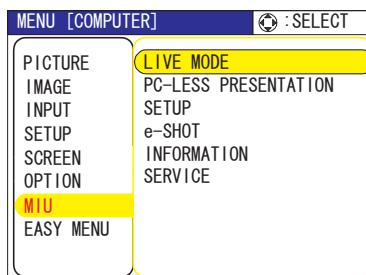
- Before start up the “MIU Live Viewer”, you have to set the projector into LIVE MODE by either of following way.

1) from Web Remote Control

(1) Click [LIVE MODE] button.

2) from OSD Menu

- (1) Open the OSD menu by pressing ▲/▼/◀/▶ Keypad button on the projector or MENU button on remote control.
- (2) Select the MIU menu by remote control or Keypad.
- (3) Select the LIVE MODE in MIU Menu, and press the ▶ button on Keypad on the projector or ENTER button on remote control.



- After setting to the projector into LIVE MODE.

1) Start “MIU Live Viewer”. If “MIU Live Viewer” installation is not completed, install it referring to 3.1.1 Install “MIU Live Viewer”.

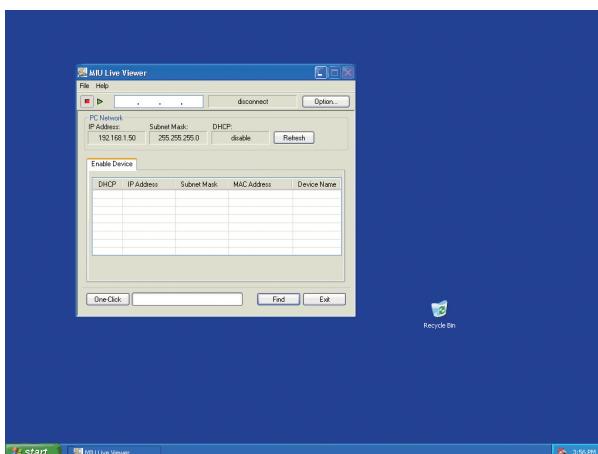


Fig. 3.1.4.a Screen after “MIU Live Viewer” starting up

3. How to use Projector software – Basics -

3.1 How to use “MIU Live Viewer” (Continued)

- 2) Start Web Remote Control (図39), and click [LIVE MODE] button on Web Remote Control to change projector mode to “MIU Live Viewer”. After changing, screen of the output monitor connected with projector turn all blue.
- 3) Perform following operations on “MIU Live Viewer”
 - (1) Click [Find] button to search communication available projector. If any projector is not found at “Enable Device” tab, try search again after referring section 2.

Display communication possible projector like this if available as a result of search.

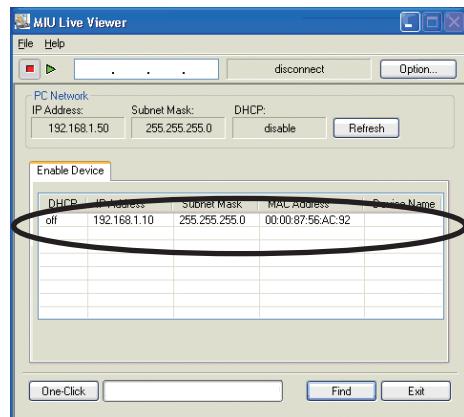


Fig. 3.1.4.b Projector search result display (1)

- (2) When communication available projector is found at 1), click the found projector to select

Click the projector line to connect. IP address appears in the upper column.

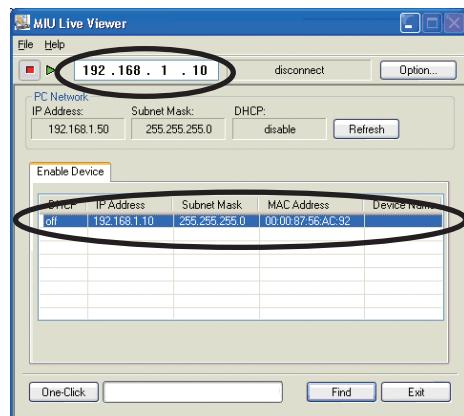


Fig. 3.1.4.c Projector search result display (2)

3.1 How to use “MIU Live Viewer” (Continued)

(3) Click Capture start button.

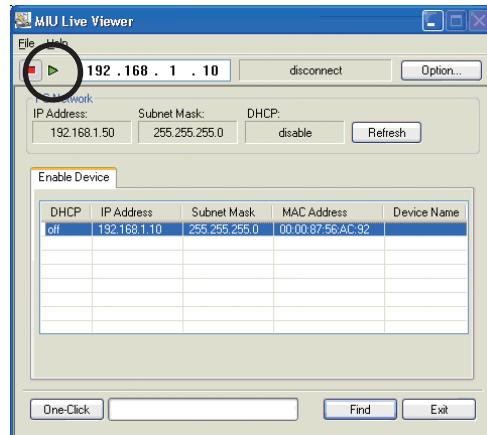


Fig. 3.1.4.d Start capturing

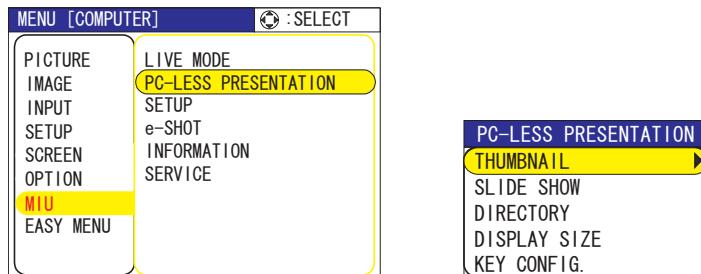
Based on the above operation, if captured picture of PC screen is displayed real time on monitor connected with projector, it is succeeded. Much easier to connect if you utilize “One-Click-Communication” function. (図8)

This is basic usage. Refer to section 4.1 for further explanation of advanced MIU Live Viewer usage.

3.2 Utilize “PC-LESS Presentation” – Basic -

Explain basics of how to utilize “PC-LESS Presentation”.

- 1) Save JPEG picture files into root directory in SD Memory Card or USB memory.
Insert SD Memory Card into SD card slot on projector or insert USB memory into USB STORAGE port on projector ([Using a USB storage](#) or [Using an SD card](#) of the *User's Manual - Operating Guide*).
- 2) Open the OSD menu from the MENU button on the remote control or ▲/▼/◀ /▶ button on Keypad.
- 3) Select the PC-LESS PRESENTATION item on the MIU Menu. And press the ENTER button on the remote control or ▶ button on Keypad. Then PC-LESS PRESENTATION Menu appears.



- 4) Select THUMBNAIL on PC-LESS PRESENTATION Menu. And press the ENTER button on remote control or ▶ button on Keypad. Then thumbnail appears.

If thumbnail appears by above operation, it is succeeded. (Fig.3.2.a) This is basic usage. There are varieties of usage for “PC-LESS Presentation”. Refer to section 4.2 for further detailed explanation.

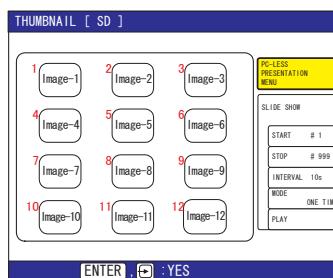


Fig. 3.2.a Thumbnail Mode

3.2 Utilize “PC-LESS Presentation” –Basic - (Continued)

You can also activate “PC-LESS Presentation” from the Web Remote Control.

- 1) Save JPEG picture files into root directory in SD Memory Card or USB memory.
Insert SD Memory Card into SD card slot on projector or insert USB memory into USB STORAGE port on projector ([Using a USB storage](#) or [Using an SD card](#) of the *User's Manual - Operating Guide*).
- 2) Connecting as network refer to section 2 and start the Web Remote Control.
- 3) Click [**Thumbnail**] button on the Web Remote Control to change projector mode to “PC-LESS Presentation”. Then thumbnail appears.

To remove the SD card or USB memory,

- 4) Be sure to perform the REMOVE procedure using the SERVICE item in the MIU menu ([MIU Menu](#) of the *User's Manual - Operating Guide*). When an error dialog appears in the procedure, please re-perform the procedure after waiting for a while.
- 5) When you remove the SD wireless network card, be sure to turn the projector off.
- 6) Remove the SD card or USB Memory. For removing the SD card, remove the SD card slot cover before, and put the cover back after.

⚠ Caution • Do not pull out memory card while file is accessed.

- SDHC(4GB etc) SD Memory Card is not supported. UP to 2GB.
- Some SD Memory Cards and/or USB memories will not work correctly.
- Security USB memory is not supported.

4. Utilize projector – Advanced -

4.1 Utilize “MIU Live Viewer” – Advanced -

This section explains how to connect multiple PCs.

4.1.1 Connect multiple PCs with one projector (Multiple PCs connection)

A projector can be connected with up to 4 PCs to display multiple windows.

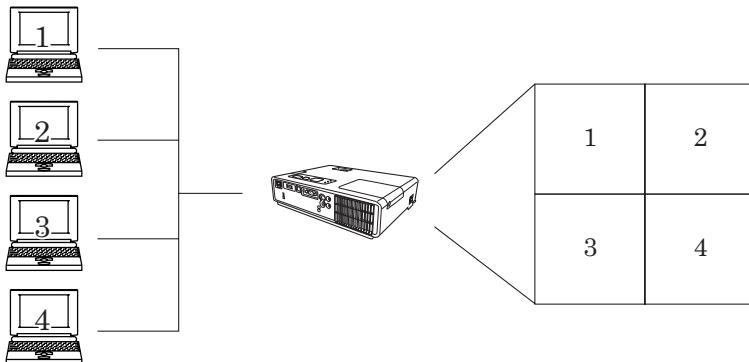


Fig. 4.1.1.a Multiple PCs connection outline

Followings are required for multiple PCs connection.

- From 2 to 4 PCs (“MIU Live Viewer” installation is required to all PCs to connect.)
- Projector: 1 unit
- CAT-5 (or greater) LAN cable: Required qty*
- Ethernet hub

* It is required to make all wireless PCs enabling wireless communication when doing multiple PCs connection as wireless LAN connection. SD-Link11g card for projector is required. If it is communicated by Infrastructure mode, access point is necessary. (16)

4.1 Utilize “MIU Live Viewer” – Advanced - (Continued)

[Connection]

- 1) Connect all PCs and projector using LAN cables and hub as shown in Fig. 4.1.1.a.
- 2) Start up “MIU Live Viewer” in each PC. Check the IP address in PCs and confirm xxx of [192.168.1.xxx] in IP address is set different value in each PC.
- 3) Click [**Find**] button in “MIU Live Viewer” and search projector.
- 4) When projector is found, click [**Option**] button in “MIU Live Viewer”. Then open “General” tab and select the number of PCs to connect as “MultiPC Mode”. After selecting, click [**Close**] button.
- 5) Click Capture Start button.
- 6) Repeat from 3) to 5) to all PCs.

* Display screen priority

In case of multiple PCs connection, priority is decided automatically comparing when each PC is connected. In each mode, priority is as shown in Fig. 4.1.1.b. (Smaller number is prioritized.)

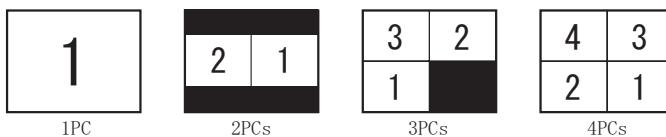


Fig. 4.1.1.b Priority in each mode

Detailed conditions and specifications for priority are as follows.

- a) The PC that connects later has the highest priority.
- b) When “MultiPC Mode” (2 to 4 PCs) is changed to 1 PC, changed 1 PC has the highest priority.
- c) “MultiPC Mode” can be changed settings freely even the PC is communicating.
- d) When the number of selected PC is smaller than the number of connected PC, lower priority PC screens are not displayed, but connections with projector are kept. When more than 5 PCs are connected with projector, lower priority PC connection is disconnected.

NOTE • If Multi PC is selected and the screen resolution which one of connected PCs has is changed, the PC will be given the highest priority and the mode (1 to 4PCs) set on the PC will be effective on the projector.

- On “MultiPC Mode” (2 to 4 PCs), the image resolution of each screen is 1/4 of the original, so small letters or lines might be illegible. It is recommended to use letters as large as possible.

4.2 Utilize “PC-LESS Presentation” – Advanced -

“PC-LESS Presentation” reads image data from memory cards inserted into SD CARD slot or USB STORAGE port and perform followings.

SD Memory and SD wireless network card can not be inserted at the same time.

- Thumbnail Mode (55)
- Full Screen Mode (57)
- Slide Show Mode (59)
- Directory Tree View (61)

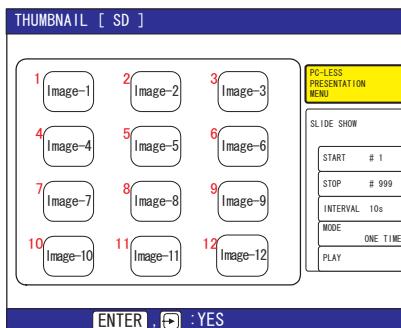


Fig. 4.2.a Thumbnail Mode



Fig. 4.2.b Full Screen Mode



Fig. 4.2.c Slide Show Mode

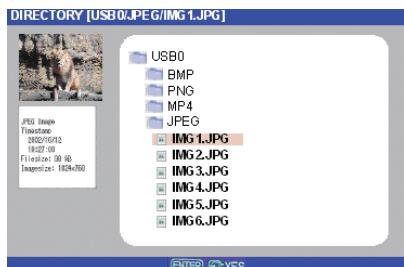


Fig. 4.2.d Directory Tree View

4.2 Utilize “PC-LESS Presentation” – Advanced - (Continued)

Following picture and movie files can be displayed.

- JPEG (.jpeg, .jpg) * Progressive is not corresponded.
- Bitmap (.bmp) * 16bit mode and compressed bitmap is not corresponded.
- PNG (.png) * Interlace PNG is not corresponded.
- MPEG4 (.mp4) * Supported bit resolution rate is less than 1Mbps in Simple Profile.
Supported resolution is less than VGA.
Supported Audio format is only AAC.

4.2.1 Thumbnail Mode

Fig.4.2.1 shows Thumbnail mode. You can display thumbnail from the OSD menu using remote control or keypad, or by clicking [THUMBNAIL] button in the Web Remote Control. Refer to [3.2 Utilize “PC-LESS Presentation” - Basic](#) - in detail.

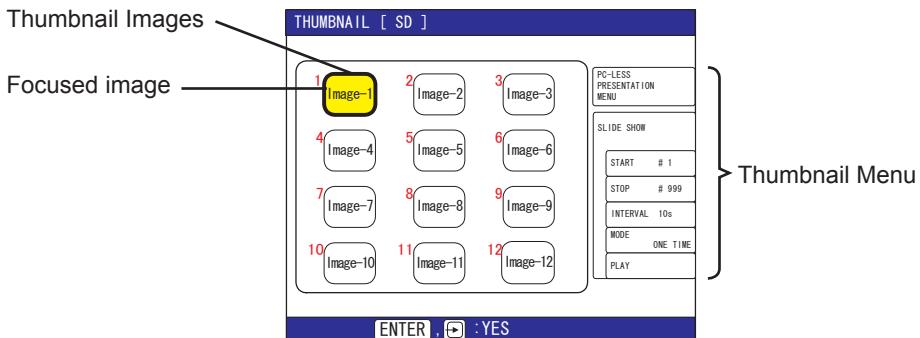


Fig. 4.2.1 Thumbnail Mode

4.2 Utilize “PC-LESS Presentation” – Advanced - (Continued)

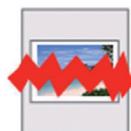
Following operations can be accessible while thumbnail is displayed.

▲/▼/◀/▶ Remote control/Keypad	Moves cursor.
PAGE UP PAGE DOWN Remote control	Switches pages.
ENTER Remote control INPUT Keypad	Displays selected image in full screen.
MENU Remote control	Displays PC-LESS PRESENTATION Menu.

* These operations are not accessible while projector OSD menu is displayed.

NOTE • Thumbnail Mode shows 12 pictures in 1 page as maximum.

- It is not possible to change the input port by INPUT button when THUMBNAIL, SLIDE SHOW, or DIRECTORY is displayed.
- Display the projector OSD Menu before changing the input port.
- Select the right edge images and press the ▶ button, then thumbnail menu will be selected.
- Some error Icons will be displayed in thumbnail.



This file seems to be broken or not supported format.



This file exists only in Playlist (65), but does not exist anywhere.

4.2 Utilize “PC-LESS Presentation” – Advanced - (Continued)

4.2.2 Full Screen Mode

Full Screen Mode (Fig.4.2.2) shows a full display image. To make full screen display, press the ENTER button on remote control or the INPUT button on Keypad or click [ENTER] button in the Web Remote Control if the image file is selected on Thumbnail Mode or Directory Tree View.

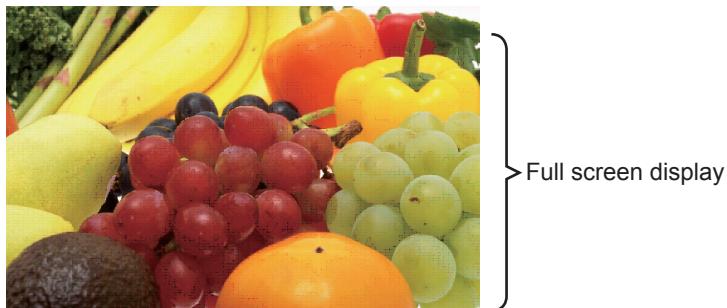


Fig.4.2.2 Full Screen Mode

While displaying in full screen, following operation can be accessible from the Web Remote Control.

◀/▶ or ▲/▼ (Selected on KEY CONFIG. MENU 58)	• Rotates image 90 degrees clockwise or otherwise. Once image is rotated, it keeps the display image even though it is switched. (Thumbnail or Slide Show Mode) To return the original, rotate the image 360 degrees or erase playlist in memory card. (65) • Moves the slide forward or backward.
ENTER Remote control	(from Thumbnail Mode) Displays thumbnail.
INPUT Keypad	
MENU Remote control	Displays PC-LESS PRESENTATION Menu.

* These operations are not accessible while projector OSD menu is displayed.

NOTE • It is not possible to change the input port by INPUT button of keypad when displaying the THUMBNAIL, SLIDE SHOW, or DIRECTORY.
 • Display the projector OSD Menu before changing the input port.
 • Image might not be displayed properly at the beginning or end of MP4 file playback.

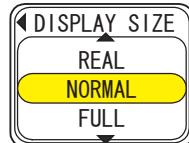
4.2 Utilize “PC-LESS Presentation” – Advanced - (Continued)

You can display the image file with your desired size.

- 1) Select the DISPLAY SIZE in PC-LESS PRESENTATION Menu.
- 2) Press the ENTER button on the remote control or ► button on the Keypad.



- 3) Then DISPLAY SIZE menu appears.



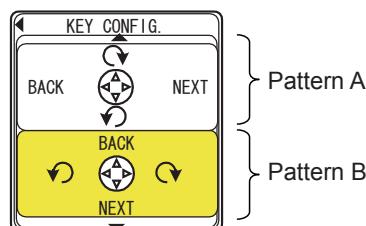
- 4) Select your desired DISPLAY SIZE.

- REAL : Displays the image at original size.
 - Displays the image at the center of screen if original size is smaller than the screen size.
 - Displays only center of the image if original size is larger than the screen size.
- NORMAL : Displays the image for the maximum size on the screen, and keeps original aspect.
- FULL : Displays the image at the full size screen.
 - Original aspect will be changed to full size display.

The animation file is always played at VGA mode if resolution is larger than VGA. The animation file is always played at the center of screen if resolution is smaller than VGA.

You can select the KEY configuration from 2 preset pattern assigned to ▲/▼/◀/▶ keys on Thumbnail Mode.

- 1) Select the KEY CONFIG. in PC-LESS PRESENTATION Menu.
- 2) Press ► button.
- 3) The KEY CONFIG. menu appears.



- 4) Select the KEY CONFIG. pattern.

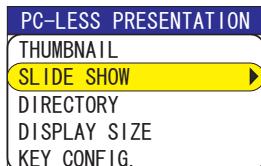
- pattern A : ◀ : previous image
▲ : rotation to right
▼ : rotation to left
► : next image
- pattern B : ◀ : rotation to left
▲ : previous image
▼ : next image
► : rotation to right

4.2 Utilize “PC-LESS Presentation” – Advanced - (Continued)

4.2.3 Slide Show Mode

You can play the Slide show with the projector Menu. Select SLIDE SHOW on PC-LESS PRESENTATION Menu and press the ENTER / ► button on the remote control or ► button on Keypad. Then Slide show will start.

You can also play the Slide show by clicking [SLIDE SHOW] button in the Web Remote Control.



Slide Show Mode (Fig.4.2.3) displays a full screen image and switches the images at Display time. Display time can be set by the Playlist (refer to section 4.3) and menu.



Fig. 4.2.3 Slide Show Mode

Following operations can be accessible while Slide show is displayed.

ENTER	Remote control	Displays thumbnail.
INPUT	Keypad	
MENU	Remote control	Displays PC-LESS PRESENTATION Menu.

* These operations are not accessible while projector OSD menu is displayed.

NOTE • It is impossible to change the input port by INPUT button if THUMBNAIL, SLIDE SHOW, or DIRECTORY is displayed.

- Display the projector OSD Menu before changing the input port .
- Images can be displayed when it is recorded in the Playlist.
- Image can not be displayed in the thumbnail if it is not recorded in the Playlist. (☞65)
- The START #, STOP #, INTERVAL, and MODE are set by thumbnail menu once, this setting has higher priority than the Playlist.
- If you would like to release the priority, delete the slidemode.txt file from directory.
- When SLIDE SHOW mode is set to ONE TIME, the last slide of the presentation will be held on screen till either of ENTER button on the remote control or INPUT button on the projector is pushed.

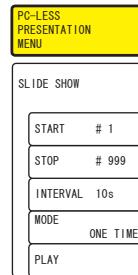
4. Utilize projector – Advanced -

4.2 Utilize “PC-LESS Presentation” – Advanced - (Continued)

You can play the Slide show at your desired configuration.

Configure the SLIDE SHOW items in THUMBNAIL.

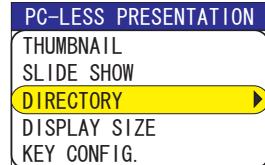
- 1) START # : Set the beginning number of Slide show.
- 2) STOP # : Set the end number of Slide show.
- 3) INTERVAL : Set the interval Slide show.
- 4) MODE : Select the Slide show mode.
 - ONE TIME : Play the Slide show one time.
 - ENDLESS : Play the Slide show endless.
- 5) PLAY : Play the Slide show. When interval setting is short like within several seconds and pictures are stored in deep layer directory like in 9th or 10th layer or stored so many pictures, it may take several seconds longer than designated interval time.



4.2 Utilize “PC-LESS Presentation” – Advanced - (Continued)

4.2.4 Directory Tree View

You can display the directory with the projector Menu. Select DIRECTORY on PC-LESS PRESENTATION Menu. And press the ENTER / ► button on remote control or ► button on Keypad. Then directory will be displayed.



You can also display the directory by clicking the [DIRECTORY] button in the Web Remote Control.

Directory Tree View (Fig.4.2.4) is displayed all folders and files (includes un-supported format file) in the memory card as a tree view.

The preview image is shown on the top left corner on directory tree view. In case of movie file, an initial flame is displayed as preview. No preview is displayed if a folder or un-supported format file is selected.

If the displayable file is selected and the ENTER button on remote control is pressed, it turns into the full screen image.

If the directory is selected and the ENTER button on remote control is pressed, it turns into the thumbnail view of selected folder.

You can also display the full screen image or the thumbnail view by clicking the [ENTER] button in the Web Remote Control.



Fig. 4.2.4 Directory Tree View

4.2 Utilize “PC-LESS Presentation” – Advanced - (Continued)

Following operations can be accessible while directory is displayed.

▲/▼	Moves selected item upward or downward.
▶	Opens the closed folder.
◀	Closes the folder.
PAGE UP PAGE DOWN Remote control	Switches pages if the whole directory tree view cannot be displayed.
ENTER Remote control INPUT Keypad	Displays a selected file as a preview in full screen. The unsupported format file cannot be opened. If the preview is displayed and Enter button is pressed, it returns to the directory tree view. If the directory (folder) is selected, it turns into Thumbnail Mode.
MENU Remote control	Displays the menu.

* These operations are not accessible while projector OSD menu is displayed.

NOTE • It is not possible to change the input port by INPUT button when THUMBNAIL, SLIDE SHOW, or DIRECTORY is displayed.

- Display the projector OSD Menu before changing the input port .
- Only alphanumeric characters can be used for directory name and file name.
- This Directory Tree View is able to show up to 10 layers depth. The files and folders that located on more than 10th layer cannot be shown. Some files and directories are not displayed if there are too many. In this case, delete some files in the directory or some directories in the memory card.

4.2 Utilize “PC-LESS Presentation” – Advanced - (Continued)

[File information display]

File information display shows following information.

Picture file (still picture)

- File format (“JPEG Image”, “PNG Image” or “BMP Image”)
- Time stamp (When file is created)
- File size (Size of File)
- Image size (File resolution)

Movie file (motion picture)

- File format (“MP4 Movie”)
- Time stamp (When file is created)
- File size (Size of File)
- Movie size (File resolution)
- Movie time (Play time)

Un-supported format file

- File format (“File”)
- Time stamp (When file is created)
- File size (Size of File)

Directory

- File format (“Directory”)
- Time stamp (When directory is created)

4. Utilize projector – Advanced -

4.2 Utilize “PC-LESS Presentation” – Advanced - (Continued)

4.2.5 “PC-LESS Presentation” error message

Error message is displayed at a specific condition while “PC-LESS Presentation” mode. It appears at the bottom and the gray area of screen.



Fig. 4.2.5 “PC-LESS Presentation” error message

“PC-LESS Presentation” error message list

Error message	Error content	Display mode
File is not found.	Displayable file does not exist.	Full Screen Mode (from Thumbnail Mode) and Side Show Mode
Illegal Playlist file.	Playlist file has malfunction. (Over 64kB file, over 1022 characters per line in file or linefeed code malfunction)	Slide Show Mode

4.3 Playlist

Playlist is a DOS format text file, which decides the order of displayed still image files or moving image files in the thumbnail or the slide show.

Playlist file name is [**imagelistdir.txt**]. It is created in each folder when “PC-LESS Presentation” is displayed. The timing of playlist creation is when “PC-LESS Presentation” is displayed in the directory, which any playlist file does not exist. The playlist is created in the displayed directory.

NOTE • Playlist can not be overwritten. Once it is created, data remains. Therefore, the image can not be displayed if it is additionally saved to the memory card that is on the playlist. In order to see added picture file, delete playlist.

Playlist is editable on the PC. Display time and rotation information at the slide show can be set based on specifying settings. Of course it is possible to make certain file image undisplayable in a playlist deleting 1 line relating to the file from playlist. Also, it is possible to see added picture image based on adding picture image file name and pass name of destination to save in playlist.

[Example of adding image file] (Pass name/pass name/.../file name, display time, rotation information)

images/photo1/img001.jpg
 images/photo1/img002.jpg, 2000
 images/photo1/img003.jpg, 500, rot1
 images/photo1/img004.jpg
 images/photo1/img005.jpg, 500, rot2

The number after the extension is the slide show display time. It can be set between 0 and 999900. (ms) Least input increment is 100 ms. The end of display time means rotation information. 90 degrees clockwise rotation becomes rot1, rot2 and rot3. (When no rotation, not specify or specify rot0.)

Display time and rotation information should be used “,” for separation.

△Caution • Maximum characters for the playlist in 1 line at playlist is 1024 including linefeed. If it exceeds, playlist becomes invalid and error.
 • Playlist maximum size is 64kB. If it exceeds, it becomes invalid.
 • Playlist can register up to 999 image files. If it exceeds, first 999 files can be utilized.
 • When image file is added to the memory card and be able to see on the screen, delete existing playlist in the memory card.

4.4 E-mail Alerts

The projector can send an alert message to the specified e-mail addresses when the projector detects a certain condition that is requiring maintenance or detected an error.

NOTE • Up to five e-mail addresses can be specified.

- The projector may be not able to send e-mail if the projector suddenly loses power.

Mail Settings (BOOK 26)

To use the projector's e-mail alert function, please configure the following items through a web browser.

Example: If the IP address of the projector is set to 192.168.1.10:

- 1) Enter [<http://192.168.1.10/>] into the address bar of the web browser.
- 2) Enter the Administrator ID and Password and click [**Logon**].
- 3) Click [**Port Settings**] on the main menu.
- 4) Click the [**Enable**] check box to open the SMTP port.
- 5) Click the [**Apply**] button to save the settings.
- 6) Click [**Mail Settings**] and configure each item. Refer to the [**Mail Settings**] item in "Configuring and controlling the Projector via a Web Browser" for further information.
- 7) Click the [**Apply**] button to save the settings.

NOTE • Click the [**Send Test Mail**] button in [**Mail Settings**] to confirm that the e-mail settings are correct. The following mail will be delivered to the specified addresses.

Subject line : Test Mail <Projector name>
Text : Send Test Mail
Date <Testing date>
Time <Testing time>
IP Address <Projector IP address>
MAC Address <Projector MAC address>

4.4 E-mail Alerts (Continued)

Mail Settings (Continued)

- 8) Click **[Alert Settings]** on the main menu to configure the E-mail Alerts settings.
- 9) Select and configure each alert item. Refer to “Alert Settings” in “Configuring and controlling the Projector via a Web Browser” for further information.
- 10) Click the **[Apply]** button to save the settings.

Failure/Warning e-mails are formatted as follows:

Subject line :	<Mail title>	<Projector name>
Text :	<Mail text>	
Date	<Failure/Warning date>	
Time	<Failure/Warning time>	
IP Address	<Projector IP address>	
MAC Address	<Projector MAC address>	

4.5 Projector Management using SNMP

The SNMP (Simple Network Management Protocol) enables to manage the projector information, which is a failure or warning status, from the computer on the network. The SNMP management software will be required on the computer to use this function.

NOTE • It is recommended that SNMP functions be carried out by a network administrator.

- SNMP management software must be installed on the computer to monitor the projector via SNMP.

SNMP settings (25)

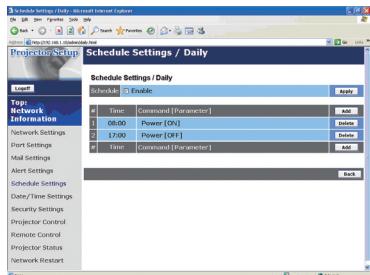
Configure the following items via a web browser to use SNMP.

Example: If the IP address of the projector is set to 192.168.1.10:

- 1) Enter [<http://192.168.1.10/>] into the address bar of the web browser.
- 2) Enter the Administrator ID and Password and click [**Logon**].
- 3) Click [**Port Settings**] on the main menu.
- 4) Click the [**Enable**] check box to open the SNMP port. Set the IP address to send the SNMP trap to when a Failure/Warning occurs.
- 5) Click [**Security Settings**] on the main menu.
- 6) Click [**SNMP**] and set the community name on the screen that is displayed.
- 7) Configure the settings for Trap transmission of Failures/Warnings. Click [**Alert Settings**] on the main menu and select the Failure/Warning item to be configured.
- 8) Click the [**Enable**] check box to send out the SNMP trap for Failures/Warnings. Clear the [**Enable**] check box when SNMP trap transmission is not required.
- 9) Click the [**Apply**] button to save the settings.

4.6 Event Scheduling

The scheduling function enables to setup scheduled events including power on / power off. It enables to be “self-management” projector.



NOTE • You can schedule the following control events: Power ON/OFF, Input Source and Transferred Image Display.

- The power on / off event has the lowest priority among the all events that are defined at the same time.
- There are 3 types of Scheduling, 1) daily 2) weekly 3) specific date. (☞70)
- The priority for scheduled events is as follows 1) specific date 2) weekly 3) daily.
- Up to five specific dates are available for scheduled events. Priority is given to those with the lower numbers when more than one event has been scheduled for the same date and time (e.g., ‘Specific day No. 1’ has priority over ‘Specific day No. 2’ and so on).
- Be sure to set the date and time before enabling scheduled events. (☞71)

4.6 Event Scheduling (Continued)

Schedule Settings (图29)

Schedule settings can be configured from a web browser.

Example: If the IP address of the projector is set to 192.168.1.10:

- 1) Enter [<http://192.168.1.10/>] into the address bar of the web browser.
- 2) Enter the Administrator ID and Password and click [**Logon**].
- 3) Click [**Schedule Settings**] on the main menu and select the required schedule item. For example, if you want to perform the command every Sunday, please select the [**Sunday**].
- 4) Click the [**Enable**] check box to enable scheduling.
- 5) Enter the date (month/day) for specific date scheduling.
- 6) Click the [**Apply**] button to save the settings.
- 7) Click [**Add**] to create new event. After configure the time, command and parameters, click [**Register**] to add the new event. To return the previous page, click [**Cancel**] button.
- 8) Click the [**Delete**] button when you want to delete a schedule.

There are three types of scheduling.

- 1) Daily: Perform the specified operation at a specified time every day.
- 2) Sunday ~ Saturday: Perform the specified operation at the specified time on a specified day of the week.
- 3) Specific Date: Perform the specified operation on the specified date and time.

NOTE • In Standby mode the power indicator will flash green for approx. 3 seconds when at least 1 “Power ON” schedule is saved.

• When the schedule function is used, the projector must be plugged in and the power indicator must light in orange or green. If the projector is unplugged or the breaker in the room trips, the schedule function does not work.

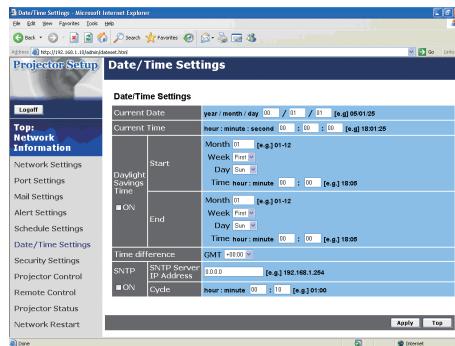
4.6 Event Scheduling (Continued)

Date/Time Settings (☞31)

The Date/Time setting can be adjusted via a web browser.

Example: If the IP address of the projector is set to 192.168.1.10:/

- 1) Enter [<http://192.168.1.10/>] into the address bar of the web browser.
Enter the Administrator ID and Password and click [**Logon**].
- 2) Click [**Date/Time Settings**] on the main menu and configure each item. Refer to the [**Date/Time Settings**] item in “Configuring and controlling the Projector via a Web Browser” for further information.
- 3) Click the [**Apply**] button to save the settings.



NOTE • The battery for the built in clock may be dead if the clock loses time even when the Date and Time have been set correctly. Replace the battery by following the instructions on replacing the battery.

(☞Internal clock battery of the User's Manual - Operating Guide)

• The Internal Clock's time may not remain accurate. Using SNTP is recommended to maintain accurate time.

4.7 e-SHOT (Still Image Transfer) Display

The projector can display a still image in an SD Memory Card or USB memory that is transferred via the network. (Fig.4.7)

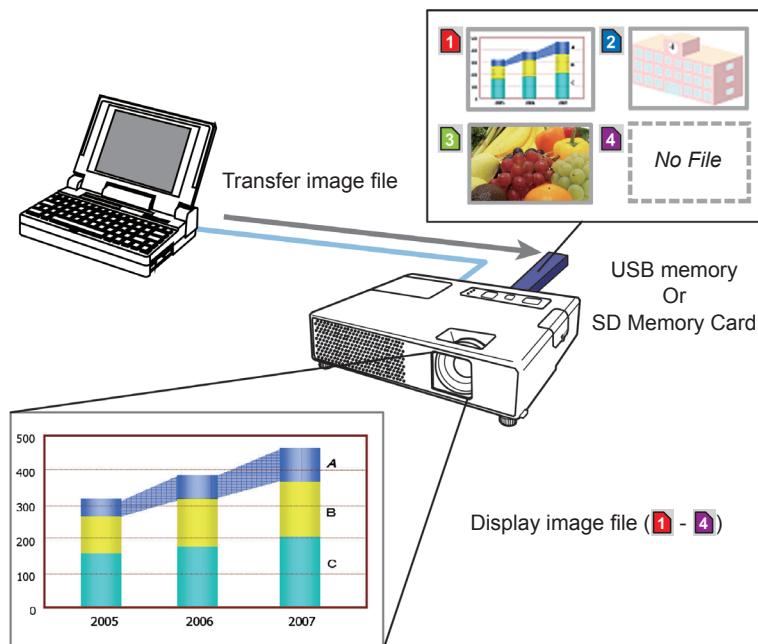


Fig.4.7 Still Image Transfer

e-SHOT transmission requires an exclusive application for your PC. You can download it from the Hitachi web site (<http://hitachi.us/digitalmedia> or <http://www.hitachidigitalmedia.com>). Refer to the manual for the application for instructions.

To display the transferred image, select the e-SHOT item in the MIU menu. For more information, please see the description of the e-SHOT item of the MIU menu. (☞ **MIU menu** of the *User's Manual - Operating Guide*)

NOTE • Supported file types are JPEG, Bitmap and PNG.
 • It is possible to allocate the image file up to 4 in the maximum.
 • The image file also can be displayed by using schedule function from the web browser. Refer to ☞ **4.6 Event Scheduling** in detail.

4.8 Command Control via the Network

You can configure and control the projector via the network using commands.

Communication Port

The following two ports are assigned for the command control.

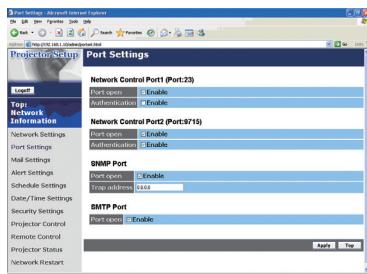
- TCP #23
- TCP #9715

Command Control Settings (图25)

Configure the following items from a web browser when command control is used.

Example: If the IP address of the projector is set to 192.168.1.10:

- 1) Enter [<http://192.168.1.10/>] into the address bar of the web browser.
- 2) Enter the Administrator ID and Password and click [**Logon**].
- 3) Click [**Port Settings**] on the main menu.



- 4) Click the [**Enable**] check box to open [**Network Control Port1 (Port: 23)**] to use TCP #23. Click the [**Enable**] check box for the [**Authentication**] setting when authentication is required, otherwise clear the check box.
- 5) Click the [**Enable**] check box to open [**Network Control Port2 (Port: 9715)**] to use TCP #9715. Click the [**Enable**] check box for the [**Authentication**] setting when authentication is required, otherwise clear the check box.
- 6) Click the [**Apply**] button to save the settings.

4.8 Command Control via the Network (Continued)

Command Control Settings (Continued)

When the authentication setting is enabled, the following settings are required.

(33)

- 7) Click [**Security Settings**] on the main menu.
- 8) Click [**Network Control**] and enter the desired authentication password. * See NOTE.
- 9) Click the [**Apply**] button to save the settings.

NOTE • The Authentication Password will be the same for [**Network Control Port1 (Port: 23)**], [**Network Control Port2 (Port: 9715)**].

Regarding the command details (format and protocol), please see the User's Manual - Technical.

5. Troubleshooting

Problem		Likely Cause	Things to Check	Reference Page Number
No image		The projector is not turned on.	Is the projector's lamp on?	*14
		The projector's input source isn't switched to MIU.	Is the projector switched to MIU?	*15
Wireless / Wired	Live Mode	The projector that you want to connect to is nowhere to be found on the list of available projectors	The PC and/or projector's network settings are not configured correctly.	Check both the PC and projector's network settings. If you change the projector's settings, turn off the projector's AC power and then turn it on again. If you simply put the projector in STANDBY power mode and then turn it on again, the new settings might not take effect. 8, 10, 16
			Weak radio signal	• Bring the PC and projector closer together • Radio waves won't go through concrete and metal (steel doors, etc.) —
	Can't communicate	The Projector isn't in Live Mode	Check the mode on MIU Menu to make sure that it is in the correct mode.	47
	The projected image is rather slow compared to that of the PC	The projector isn't capable of relaying dynamic images such as PowerPoint® animation at full speed.	Try increasing the Capture Performance priority level. It may improve the speed a little.	45
		“Optimize Performance” is set to “Image quality”.	Try setting “Optimize Performance” to “Transmission speed”.	45

(continued on next page)

* User's Manual - Operating Guide

5. Troubleshooting

Problem		Likely Cause	Things to Check	Reference Page Number
Wireless / Wired	Live Mode	Lots of interference in the images	"Optimize Performance" is set to "Transmission speed".	Try setting "Optimize Performance" to "Image quality". 45
		Two cursors appear	Cursor of the PC and cursor of the projector are displayed coming in succession.	Turn off the cursor Emulation of MIU Live Viewer option. 45
		No cursor appears	Some PCs do not display the cursor in MIU Live Viewer.	Turn on the cursor Emulation of MIU Live Viewer option. 45
PC-LESS	No information is shown after mass storage device is set on Thumbnail or Directory mode.		The mode setting is not renewed after the device is set.	Select either Thumbnail mode or Directory mode again, showing PC-LESS Presentation Menu. 50, 61
Wireless	Can't communicate	The wireless network card isn't inserted into the projector or the memory card is still inserted.		Insert the wireless network card that came with your projector into the module. *10
		There is closely another projector or other that has the same wireless setting.		Try changing of SSID and IP Address. 24 *50
Wired LAN	Can't communicate	The PC and/or projector's network settings are not configured correctly.		Check both the PC and projector's network settings. 11-13
		The wireless network card is inserted into the projector.		Remove the SD wireless network card from the projector (you can't use both wireless and wired LAN connections at the same time). *54
Others - Information from the projector to PC is not correct or completed - The projector does not respond - Image on screen is freezed		Communication between the projector and PC is not working well. MIU Functions of the projector is not working well.	Try "MIU RESTART" in MIU SERVICE MENU.	*54

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6. Specifications

Item	Specifications
File format	JPEG: Progressive is not corresponded. Bitmap: 16bit mode and compressed bitmap is not corresponded. PNG: Interlace PNG is not corresponded. MPEG4: Supported bit resolution rate is less than 1Mbps in Simple Profile. Supported resolution is less than VGA. Supported Audio format is only AAC.
Control software	Dedicated PC application and Web browser
Corresponding protocol	TCP/IP, DHCP client and HTTP server
Network	Wireless LAN (IEEE802.11b/g) (Ad-Hoc and Infrastructure modes) Ethernet (100Base-TX/10Base-T)
Security	WEP(64/128bit), WPA-PSK/PSK2(TKIP/AES), SSID
PC application operational environment	OS: Windows® XP Home Edition/ Professional Windows® 2000 Professional Service Pack 4 CPU: Pentium III 600MHz or more is recommended. Memory size: 64MB or more, 128MB or more in case of XP Graphic I/F: DirectX 6.1a or later Video RAM: 4MB required (8MB recommended) HDD: 10MB CD-ROM drive Web browser: Internet Explorer 5.5 or later
SD Memory Card	SD Memory Card (Corresponding card is not confirmed yet.)
Wireless network card	C-guys SD-Link11g
USB	USB1.0 host mass storage class SBC/BOT type Following USB memories can be read/written. - USB memory type - Card reader type (Corresponding card is not confirmed yet.)

7. Warranty and After-sales service

7. Warranty and After-sales service

If a problem occurs with the equipment, please read “5. Troubleshooting” (book icon 75) section first and review all suggested check points. After that, please contact your dealer or service company, if you still have the problem. They will tell you what warranty condition is applied.